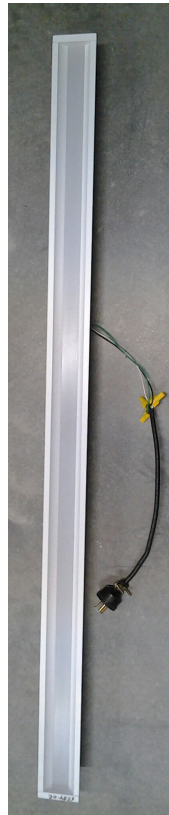


LUMINARIA LINEAL LED 38W

LUMINARIA LINEAL DE LED DRITE, ITEM N. LLL601 38W 100-240V
IP: 20, 3100LM, IRC (RA) >=80% >0.9FP CANTIDAD LED 192 LED TIPO SMD 2835
DIMENSIONES DE LA LUMINARIA: 116X7X7CM, DIFUSOR BLANCO OPALIZADO
DRIVER MARCA FAHOLD MODELO HR50W-02-040V1250A 100-240V~50/60HZ



Light Output Ratio:	100.0%	
Luminaire Power:	25.74 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

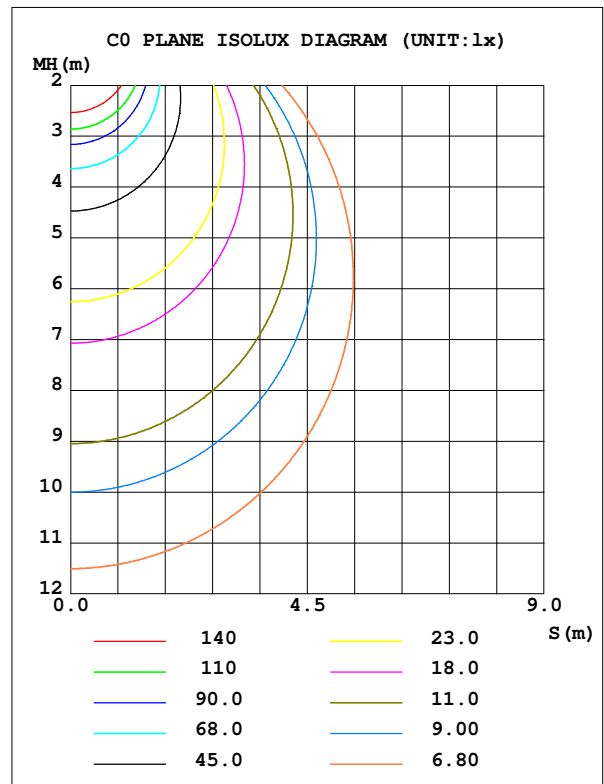
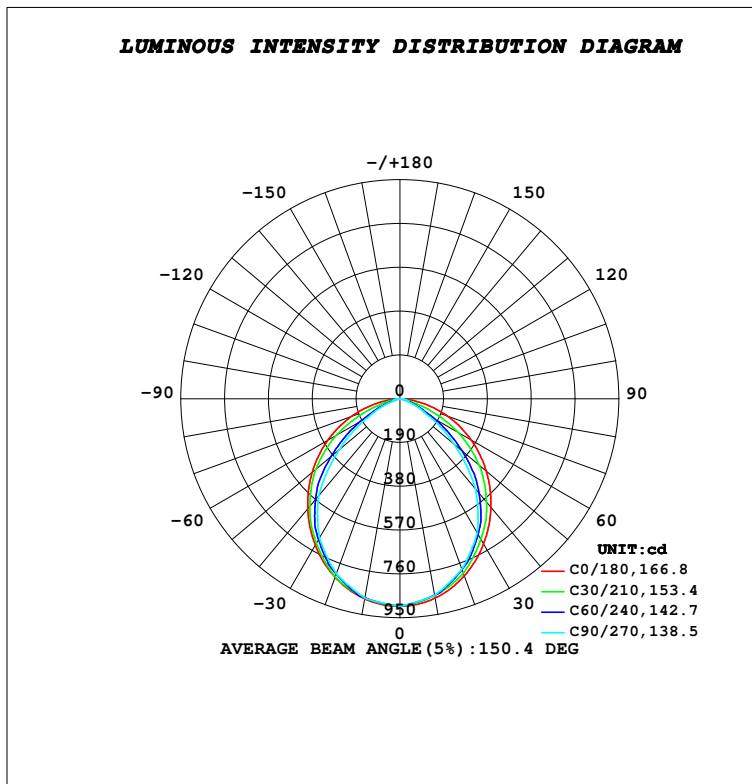
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:CB
Test Date:2017-12-26

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
Humidity:63%
Test Distance:13.200m [K=1.0000]
Remarks: LUMINARIA LED LINEAL 38W
RP 6284-02

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 77.74 lm/W
MODEL	ARREGLO LED	I _{max} (cd)	900.2	S/MH (C0/180)		1.22
NOMINAL POWER (W)	38	LOR (%)	100.0	S/MH (C90/270)		1.16
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2001.1	η UP, DN (C0-180)		0.0, 48.9
NOMINAL FLUX (lm)	2001.09	CIE CLASS	DIRECT	η UP, DN (C180-360)		0.0, 51.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM		1.25
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX		1.35



H(β) Range: -90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: CB
 Test Date: 2017-12-26

V(B) Range: -90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity: 63%
 Test Distance: 13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	ϕ zone	ϕ total	$\%lum, lamp$
10	877.8	865.1	866.8	868.0	881.2	876.0	878.3	873.1	0- 10	84.32	84.32	4.21,4.21
20	817.5	793.4	786.5	798.3	823.5	812.9	807.1	807.8	10- 20	237.5	321.8	16.1,16.1
30	726.3	691.7	671.4	697.1	734.1	716.6	698.6	710.9	20- 30	348.9	670.8	33.5,33.5
40	614.2	564.8	510.2	571.6	622.4	595.1	549.0	588.2	30- 40	401.2	1072	53.6,53.6
50	489.2	406.7	306.1	413.0	497.0	443.1	341.9	438.6	40- 50	382.4	1454	72.7,72.7
60	356.4	221.7	130.6	227.0	362.8	253.6	156.3	250.2	50- 60	294.7	1749	87.4,87.4
70	217.6	74.81	37.14	76.90	222.5	91.28	37.77	90.16	60- 70	171.8	1921	96,96
80	81.63	19.45	20.32	19.30	85.40	20.47	21.68	20.02	70- 80	66.21	1987	99.3,99.3
90	0.1589	0.7395	0.7166	0.5821	0.5565	0.2658	0.2368	0.1085	80- 90	14.00	2001	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(2.8132e+023deg): 0 lm

$\%lum = 0.0\%$
 $\%lamp = 0.0\%$

Conical surface Flux(7.13901e+031deg): 0 lm

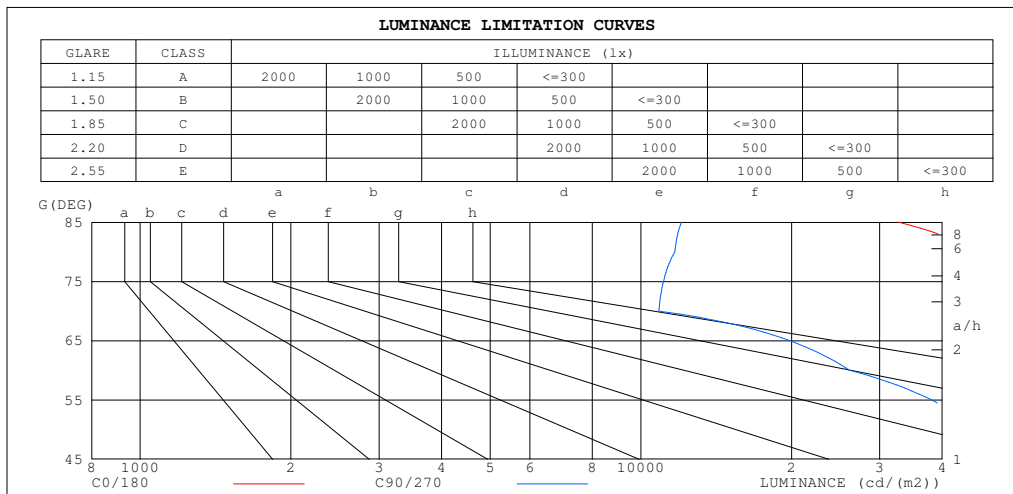
$\%lum = 0.0\%$
 $\%lamp = 0.0\%$

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

LUMINANCE LIMITATION CURVES

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	32714	12068
80	47010	11701
75	57245	11100
70	63634	10859
65	68039	19846
60	71284	26122
55	73852	38068
50	76105	47619
45	78180	57717

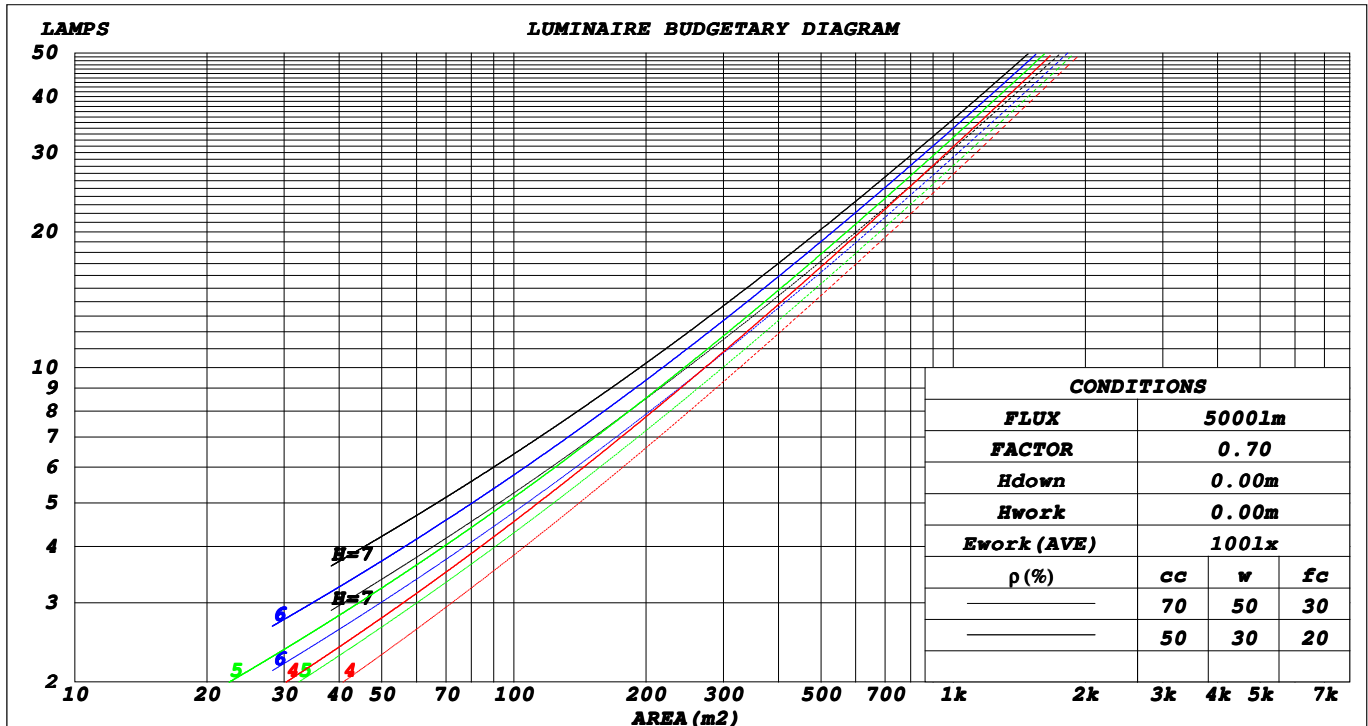
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:CB
Test Date:2017-12-26

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
Humidity:63%
Test Distance:13.200m [K=1.0000]
Remarks: LUMINARIA LED LINEAL 38W
RP 6284-02

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization (CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.86	.82	.78	.83	.80	.77	.75
3.0	.84	.76	.71	.82	.75	.70	.79	.74	.69	.77	.72	.68	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.68	.59	.53	.66	.59	.53	.64	.57	.52	.62	.56	.52	.61	.55	.51	.49
6.0	.61	.53	.47	.60	.52	.47	.58	.51	.46	.57	.51	.46	.55	.50	.45	.43
7.0	.56	.47	.42	.55	.47	.42	.53	.46	.41	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.37	.50	.43	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.43	.38	.33	.32
10.0	.43	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.35	.30	.29



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

WEC AND CCEC

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.265	.151	.048	.258	.147	.047	.245	.141	.045	.233	.135	.043	.222	.129	.042	
2.0	.256	.140	.043	.250	.138	.042	.239	.133	.041	.228	.128	.040	.219	.124	.039	
3.0	.242	.129	.039	.236	.127	.038	.226	.123	.037	.217	.119	.036	.209	.115	.036	
4.0	.226	.118	.035	.222	.116	.034	.213	.113	.034	.205	.110	.033	.197	.107	.033	
5.0	.212	.108	.031	.208	.107	.031	.200	.104	.031	.193	.102	.030	.186	.099	.030	
6.0	.199	.100	.028	.195	.098	.028	.188	.096	.028	.181	.094	.028	.175	.092	.027	
7.0	.186	.092	.026	.183	.091	.026	.177	.089	.026	.171	.088	.025	.165	.086	.025	
8.0	.175	.086	.024	.172	.085	.024	.167	.083	.024	.161	.082	.024	.156	.080	.023	
9.0	.165	.080	.022	.162	.079	.022	.157	.078	.022	.153	.077	.022	.148	.075	.022	
10.0	.156	.075	.021	.154	.074	.021	.149	.073	.021	.145	.072	.020	.141	.071	.020	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.102	.143	.114	.088	.098	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.078	.136	.098	.068	.094	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.130	.087	.054	.089	.061	.038	.052	.035	.022	.017	.012	.007	
5.0	.144	.090	.050	.124	.078	.043	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.137	.081	.041	.118	.070	.036	.081	.049	.025	.047	.029	.015	.015	.009	.005	
7.0	.131	.074	.035	.112	.064	.030	.078	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.107	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.026	.102	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.114	.059	.023	.098	.052	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

UGR(Unified Glare Rating) Table

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm										
NAME: LUMINARIA LINEAL LED 38					TYPE:			WEIGHT:		
SPEC.:					DIM.: 116x7x7 cm			SERIAL No.:		
MFR.: CIGLA					SUR.:NA			Shielding Angle:NA		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	25.4	26.8	25.7	27.0	27.2	22.2	23.6	22.5	23.8	24.0
3H	26.9	28.1	27.2	28.4	28.6	22.4	23.7	22.7	23.9	24.1
4H	27.4	28.6	27.7	28.9	29.1	22.4	23.6	22.7	23.8	24.1
6H	27.7	28.9	28.0	29.1	29.4	22.4	23.5	22.7	23.8	24.1
8H	27.8	28.9	28.1	29.2	29.4	22.4	23.5	22.7	23.8	24.1
12H	27.8	28.9	28.2	29.2	29.4	22.4	23.5	22.8	23.8	24.1
4H 2H	25.5	26.7	25.8	27.0	27.2	22.8	24.0	23.1	24.3	24.5
3H	27.0	28.1	27.3	28.3	28.6	23.0	24.0	23.3	24.3	24.6
4H	27.6	28.5	27.9	28.9	29.2	23.0	24.0	23.4	24.3	24.6
6H	28.0	28.8	28.3	29.1	29.5	23.1	23.9	23.5	24.3	24.7
8H	28.0	28.8	28.5	29.2	29.6	23.1	23.9	23.5	24.3	24.7
12H	28.1	28.8	28.5	29.2	29.6	23.2	23.9	23.6	24.3	24.7
8H 4H	27.5	28.3	27.9	28.6	29.0	23.1	23.9	23.5	24.3	24.6
6H	27.9	28.5	28.3	28.9	29.3	23.2	23.9	23.7	24.3	24.7
8H	28.0	28.6	28.4	29.0	29.4	23.3	23.9	23.8	24.3	24.8
12H	28.0	28.5	28.5	29.0	29.4	23.4	23.9	23.9	24.3	24.8
12H 4H	27.4	28.2	27.9	28.5	28.9	23.1	23.8	23.5	24.2	24.6
6H	27.8	28.4	28.3	28.8	29.3	23.2	23.8	23.7	24.2	24.7
8H	28.0	28.4	28.4	28.9	29.4	23.3	23.8	23.8	24.3	24.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.7 / - 0.9				
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.6				
2.0H	+ 0.7 / - 1.0					+ 1.3 / - 2.1				

CIE Pub.117, 2001 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

UTILIZATION FACTORS TABLE

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

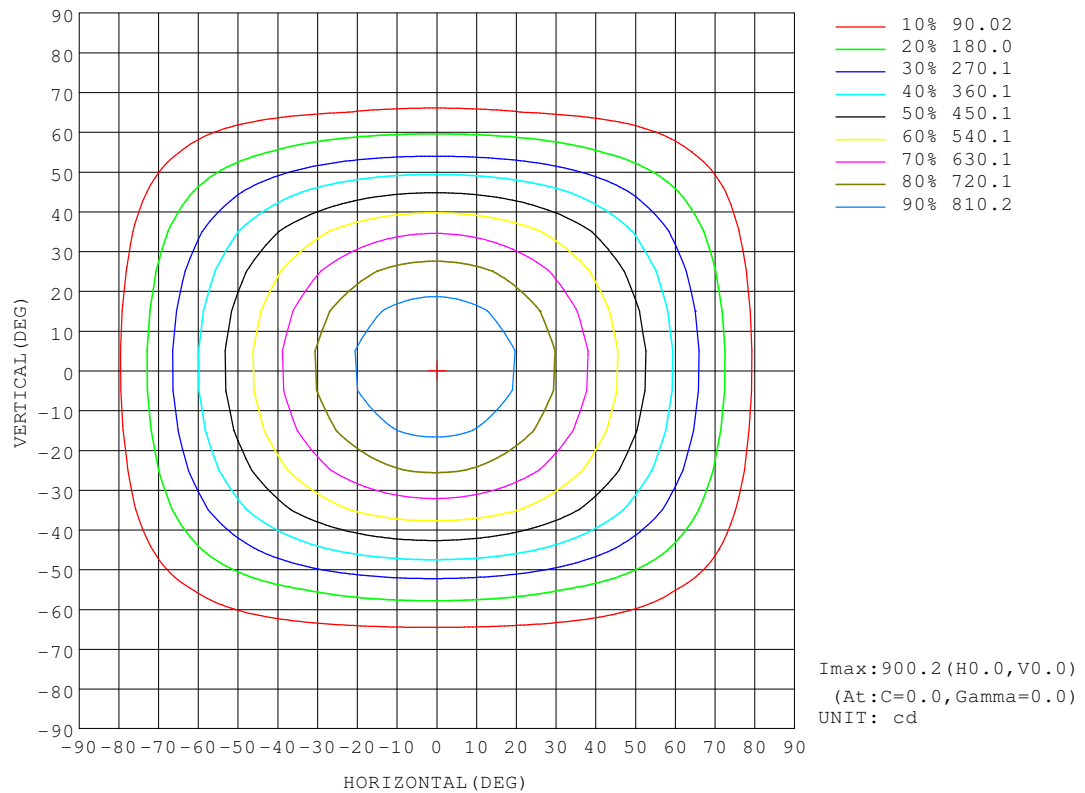
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	52	45	62	51	45	61	51	45	39
0.80	73	62	55	72	62	55	70	61	55	49
1.00	81	71	65	80	71	64	78	72	64	57
1.25	88	79	72	87	78	72	84	77	71	65
1.50	93	84	78	91	83	77	88	81	76	70
2.00	99	91	86	97	90	85	94	88	84	76
2.50	102	95	90	100	94	89	96	91	87	80
3.00	105	99	94	103	98	93	99	95	91	83
4.00	108	104	100	106	102	98	102	99	96	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

ISOCANDELA DIAGRAM

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

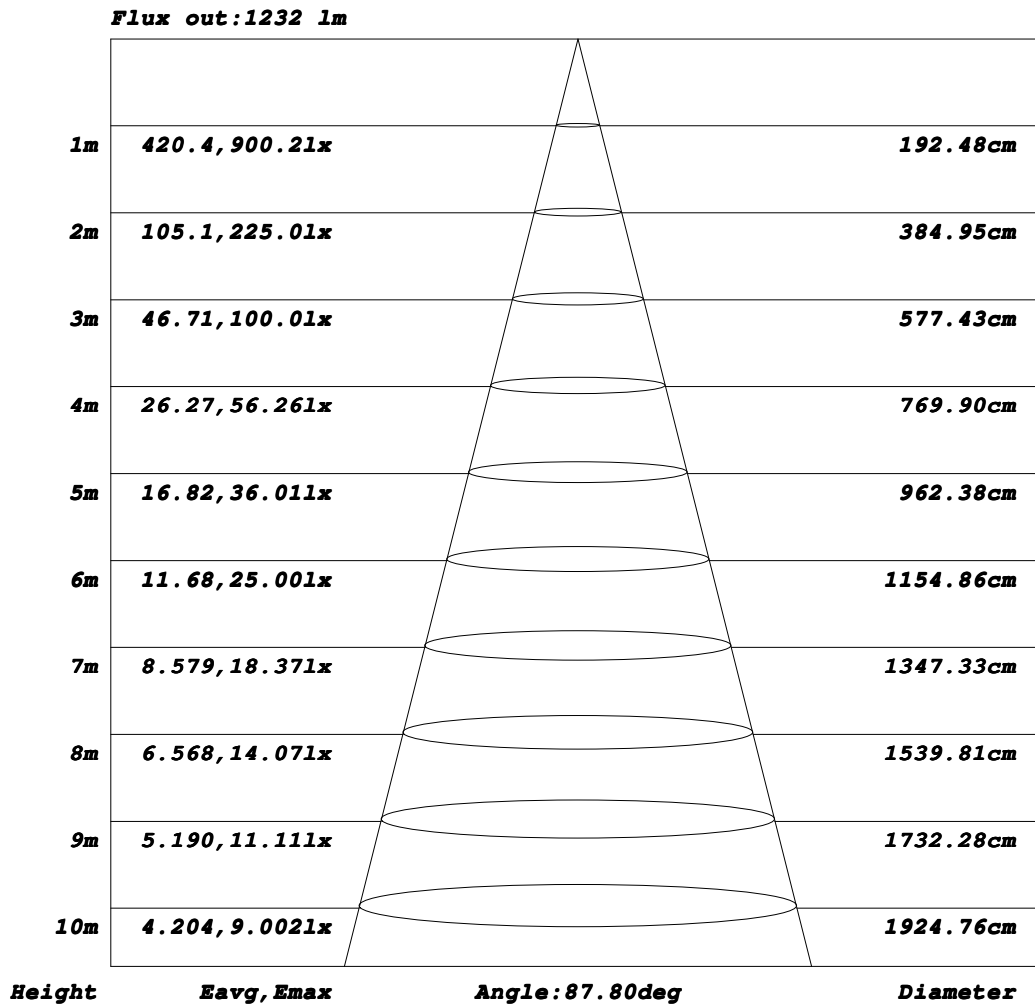


H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

AAI Figure

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA



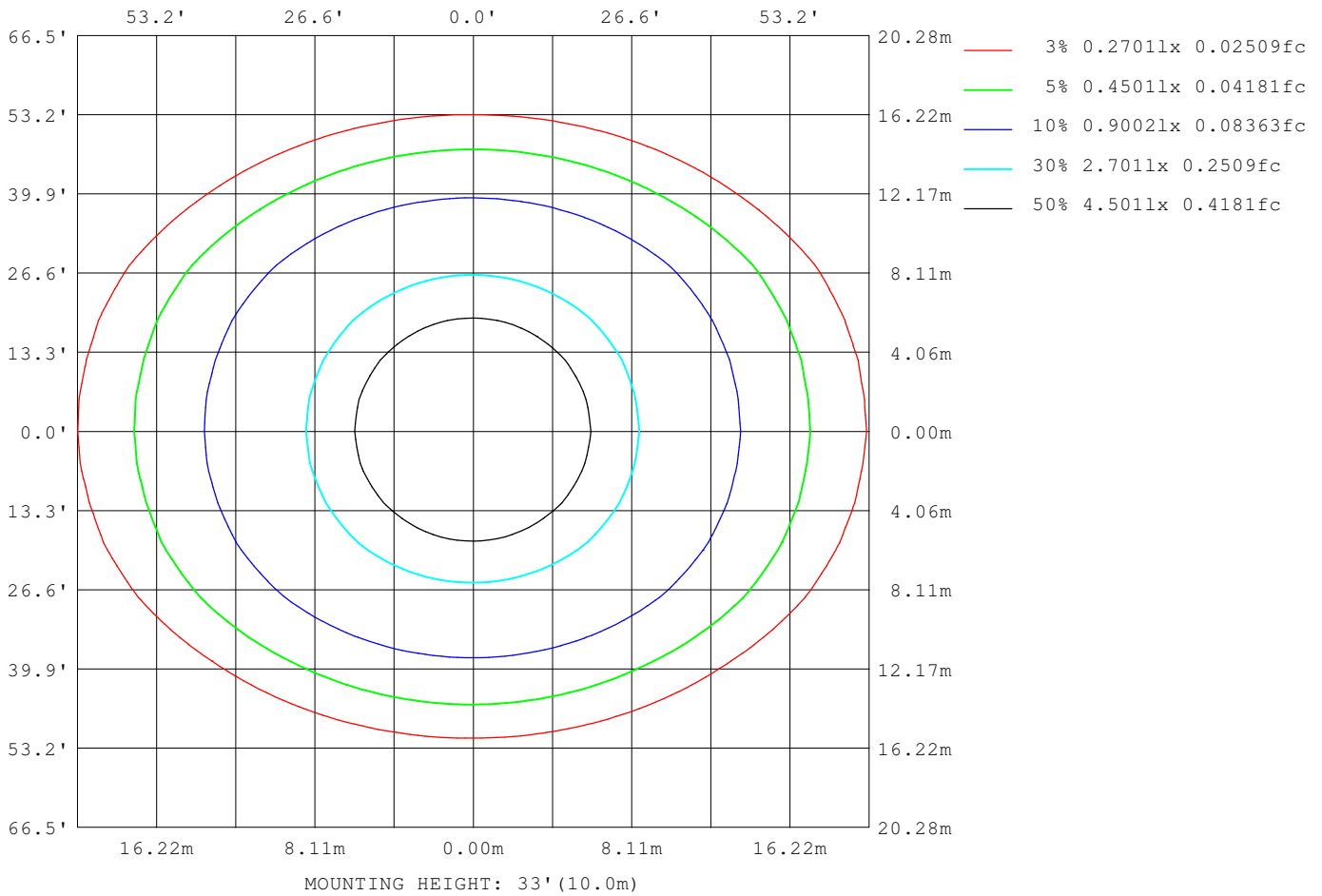
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: CB
 Test Date: 2017-12-26

V(B) Range: -90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity: 63%
 Test Distance: 13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

ISOLUX DIAGRAM

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:CB
Test Date:2017-12-26

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
Humidity:63%
Test Distance:13.200m [K=1.0000]
Remarks: LUMINARIA LED LINEAL 38W
RP 6284-02

LED Avg.L Report

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

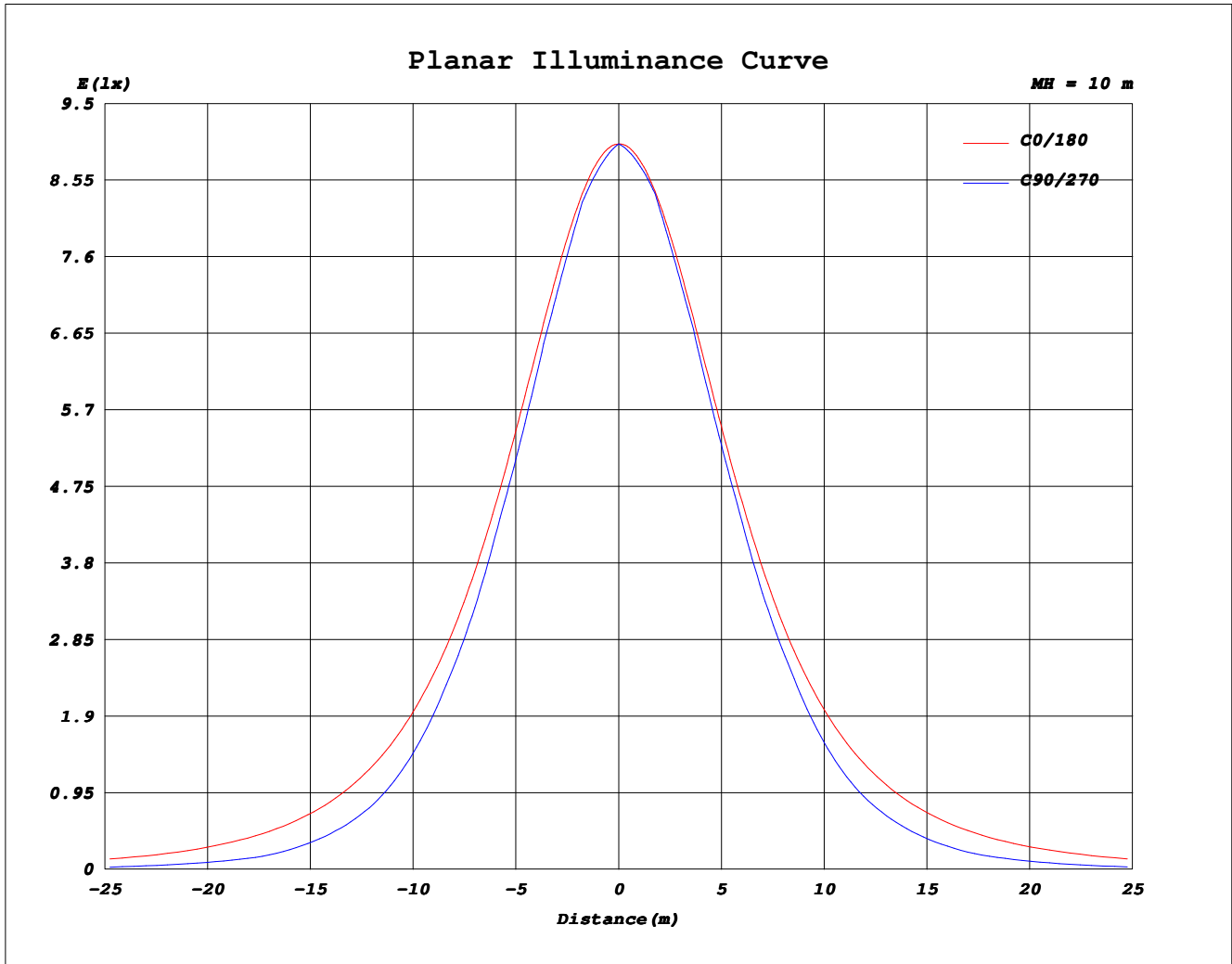
AvgL	cd/m2
L_0~180 (65) av	68719
L_0~180 (75) av	57966
L_0~180 (85) av	33743
L_90~270 (65) av	21401
L_90~270 (75) av	11293
L_90~270 (85) av	12322
L_45 (65) av	36149
L_45 (75) av	12790
L_45 (85) av	12129

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:CB
Test Date:2017-12-26

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
Humidity:63%
Test Distance:13.200m [K=1.0000]
Remarks: LUMINARIA LED LINEAL 38W
RP 6284-02

LUMINARIA LINEAL DE LED DRITE, ITEM N. LLL601 38W 100-240V
IP: 20, 3100LM, IRC(RA) >=80% >0.9FP CANTIDAD LED 192 LED TIPO SMD 2835
DIMENSIONES DE LA LUMINARIA: 116X7X7CM, DIFUSOR BLANCO OPALIZADO
DRIVER MARCA FAHOLD MODELO HR50W-02-040V1250A 100-240V~50/60HZ

Test Distance: 13.200 metres
Test Temperature: 25.2 degrees Celsius

Significance: PHOTOMETRIC TEST
CIGLA ELECTRICOS
CRA 42 CL 75 331
ITAGUI
SAMPLES RECEIVED IN 2107-12-14

Special Notes: TEST EQUIPMENT

GONIOPHOTOMETER SYSTEM: 109M
POWER SUPPLY: 107A - 112A
POWER ANALYZER: 110A - 147M
SPECTROPHOTOCOLORIMETER: 106A
THERMOHYGROMETER 116M

Environmental Conditions: 25 ± 1 ° C temperature and 50 ± 20% RH
The results reported here relate only to the elements tested.
This test report should not be partially reproduced,
Without the approval of the QTEST Laboratory.

Realizó/revisó Checked
IE JORGE VALENCIA

Approved
IE CLAUDIA BETANCUR

Testing Procedure: IESNA LM 79 2008

*H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:CB
Test Date:2017-12-26*

*V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
Humidity:63%
Test Distance:13.200m [K=1.0000]
Remarks: LUMINARIA LED LINEAL 38W
RP 6284-02*

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900
5	894	893	891	890	889	888	887	886	886	885	885	884	884	884	884	883	883	883	884
10	878	875	873	871	869	868	867	866	865	865	865	865	865	865	866	866	866	867	867
15	852	848	845	843	841	840	839	839	840	837	835	832	830	829	828	827	827	827	827
20	817	813	809	807	806	805	805	800	796	793	791	789	788	787	787	786	786	786	786
25	775	770	766	764	764	761	756	752	749	747	746	742	738	735	732	731	729	729	729
30	726	720	717	716	713	707	703	701	698	692	686	682	679	676	674	672	672	671	671
35	672	666	663	662	655	651	649	642	635	630	625	622	614	606	600	596	593	591	591
40	614	608	605	601	595	593	585	577	572	565	553	543	534	526	520	516	512	511	510
45	553	546	545	538	534	526	518	512	498	485	474	464	451	438	427	419	413	409	408
50	489	483	479	473	467	457	449	433	420	407	387	369	353	339	327	318	311	307	306
55	424	417	411	407	396	386	370	355	334	313	292	273	258	246	236	228	223	219	218
60	356	350	343	334	324	307	290	266	243	222	204	188	173	160	150	141	135	132	131
65	288	281	274	262	246	227	202	179	159	139	121	106	101	95.7	91.5	88.2	85.8	84.3	83.9
70	218	209	199	185	166	143	121	99.9	81.2	74.8	68.1	61.5	55.4	50.1	45.6	42.0	39.3	37.7	37.1
75	148	140	127	109	88.7	68.5	54.2	47.2	39.7	32.0	28.4	28.5	28.6	28.7	28.7	28.7	28.7	28.8	28.7
80	81.6	72.6	58.2	42.0	30.1	24.4	18.6	18.9	19.2	19.5	19.7	19.8	20.0	20.1	20.2	20.3	20.3	20.3	20.3
85	28.5	18.9	10.4	8.35	8.87	9.35	9.76	10.0	10.2	10.3	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
90	0.16	1.17	1.06	0.95	0.90	0.86	0.82	0.79	0.76	0.74	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900
5	884	884	884	884	885	885	885	886	886	887	888	889	890	891	892	893	894	896	895
10	867	867	867	867	867	867	867	868	868	868	869	870	871	873	874	876	879	881	880
15	827	828	829	830	831	833	836	838	842	845	844	844	845	846	848	850	853	857	855
20	787	787	788	789	790	791	793	795	798	802	806	811	812	812	813	816	819	824	821
25	730	731	732	735	738	741	746	750	752	755	758	763	769	772	772	774	777	782	779
30	672	673	675	677	680	683	687	691	697	704	707	710	715	722	725	726	729	734	731
35	592	594	598	604	610	618	627	631	636	642	649	656	659	664	672	673	675	681	678
40	511	514	518	523	530	539	548	559	572	579	585	592	600	604	611	616	617	622	620
45	410	414	421	430	442	456	469	480	492	506	520	526	534	542	547	556	556	561	559
50	308	313	320	330	343	357	374	393	413	426	441	457	466	474	481	489	492	497	495
55	220	224	230	238	249	262	278	297	318	341	362	377	395	404	414	420	426	431	430
60	132	136	143	151	163	176	191	208	227	249	273	297	315	333	341	350	359	363	363
65	84.5	86.2	88.8	92.4	96.9	102	108	124	143	164	185	209	233	252	270	280	290	293	293
70	37.7	39.3	42.0	45.7	50.4	56.0	62.3	69.4	76.9	84.7	104	126	149	172	191	206	216	223	220
75	28.8	28.7	28.7	28.7	28.6	28.5	28.4	28.3	32.2	40.6	49.0	57.0	72.4	93.5	114	132	144	152	149
80	20.3	20.3	20.2	20.2	20.1	19.9	19.7	19.5	19.3	19.0	18.7	18.4	25.0	31.9	44.8	61.9	76.2	85.4	81.1
85	10.5	10.5	10.5	10.5	10.5	10.4	10.4	10.3	10.2	10.0	9.83	9.54	9.08	8.57	8.01	11.3	20.8	30.3	24.8
90	0.72	0.70	0.69	0.67	0.65	0.62	0.60	0.58	0.58	0.58	0.60	0.62	0.64	0.65	0.68	0.79	0.93	0.56	0.16

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

Table--3

UNIT: cd

C (DEG) \ γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900
5	894	893	893	892	892	891	891	890	890	890	890	890	890	889	889	889	889	889	889
10	878	877	876	876	876	876	876	876	876	877	877	878	878	878	878	878	878	878	878
15	853	852	852	852	853	854	855	853	851	849	847	846	845	844	843	843	843	842	842
20	819	819	819	821	822	818	815	813	811	810	809	808	808	808	808	807	807	807	806
25	778	779	781	779	775	772	770	769	769	766	763	760	757	756	754	753	753	753	753
30	730	732	732	727	724	723	722	717	713	709	706	704	702	701	700	699	699	698	698
35	678	680	675	672	671	666	661	657	654	652	645	639	634	630	627	625	624	624	625
40	621	619	615	614	608	603	600	595	585	577	570	564	559	555	552	550	549	549	550
45	561	556	554	548	543	541	529	519	510	502	490	477	466	457	451	447	445	446	450
50	495	491	487	481	476	464	453	443	424	406	390	376	365	355	348	344	342	343	347
55	427	424	417	412	399	388	368	347	327	309	293	280	269	261	254	250	249	250	254
60	358	352	347	333	320	297	275	254	235	218	202	189	177	168	162	158	156	157	161
65	288	282	268	252	229	207	186	165	146	130	121	114	108	103	99.9	97.8	97.0	97.6	99.6
70	214	204	187	166	144	122	102	91.3	81.0	71.5	62.9	55.5	49.2	44.3	40.7	38.5	37.8	38.5	40.6
75	141	126	107	85.9	68.9	57.5	45.8	34.4	29.2	29.3	29.5	29.6	29.7	29.8	29.8	29.8	29.7	29.7	29.6
80	69.8	53.5	39.3	28.6	19.1	19.7	20.1	20.5	20.8	21.1	21.3	21.4	21.6	21.6	21.7	21.7	21.7	21.6	21.6
85	14.6	8.57	9.37	10.1	10.7	10.9	11.0	11.1	11.1	11.1	11.1	11.1	11.1	11.0	11.0	11.0	11.0	10.9	10.9
90	0.17	0.18	0.20	0.21	0.23	0.24	0.25	0.27	0.28	0.28	0.29	0.29	0.28	0.27	0.26	0.25	0.24	0.22	0.18

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.8V I:0.2167A P:25.74W PF:0.9920 Freq:60.00Hz Lamp Flux:2001.09x1 lm		
NAME: LUMINARIA LINEAL LED 38	TYPE:	WEIGHT:
SPEC.:	DIM.: 116x7x7 cm	SERIAL No.:
MFR.: CIGLA	SUR.:NA	Shielding Angle:NA

Table--4 UNIT: cd

C (DEG) \ y (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355			
0	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900			
5	889	889	889	889	889	889	889	889	890	890	890	891	892	892	893			
10	877	876	876	875	874	874	873	873	872	872	872	873	874	875	876			
15	843	843	844	844	845	847	849	850	849	848	847	846	847	848	850			
20	806	806	806	806	806	807	808	809	812	815	814	813	812	813	814			
25	754	755	757	759	762	764	764	764	766	768	771	772	770	770	772			
30	699	699	700	702	704	707	711	716	716	717	719	722	723	722	723			
35	627	631	635	640	646	648	651	654	659	664	664	665	670	668	668			
40	553	556	561	566	572	580	588	593	596	601	607	606	609	611	610			
45	456	464	475	487	498	505	513	522	532	535	540	546	546	551	549			
50	354	363	374	388	403	420	439	447	457	468	473	479	482	485	486			
55	260	268	278	291	306	324	343	363	383	392	404	409	417	418	420			
60	168	176	187	200	215	232	250	271	292	315	327	339	345	350	354			
65	103	108	113	120	129	144	163	183	204	225	248	263	274	282	285			
70	44.1	48.9	55.0	62.3	70.8	80.1	90.2	101	120	141	162	184	199	208	214			
75	29.6	29.5	29.3	29.2	29.0	28.7	33.8	45.1	56.0	67.0	83.5	104	123	136	145			
80	21.5	21.3	21.1	20.9	20.7	20.4	20.0	19.6	19.1	18.6	27.7	38.1	52.1	67.4	78.0			
85	10.9	10.9	10.9	10.9	10.8	10.8	10.7	10.6	10.4	10.2	9.53	8.81	8.04	14.0	23.7			
90	0.17	0.15	0.14	0.13	0.12	0.11	0.11	0.11	0.11	0.11	0.13	0.13	0.14	0.15	0.16			

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.2DEG
 Operators:CB
 Test Date:2017-12-26

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.362
 Humidity:63%
 Test Distance:13.200m [K=1.0000]
 Remarks: LUMINARIA LED LINEAL 38W
 RP 6284-02