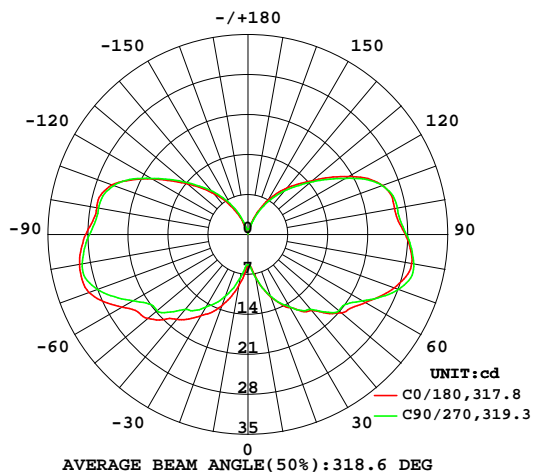


LUMINAIRE PHOTOMETRIC TEST REPORT

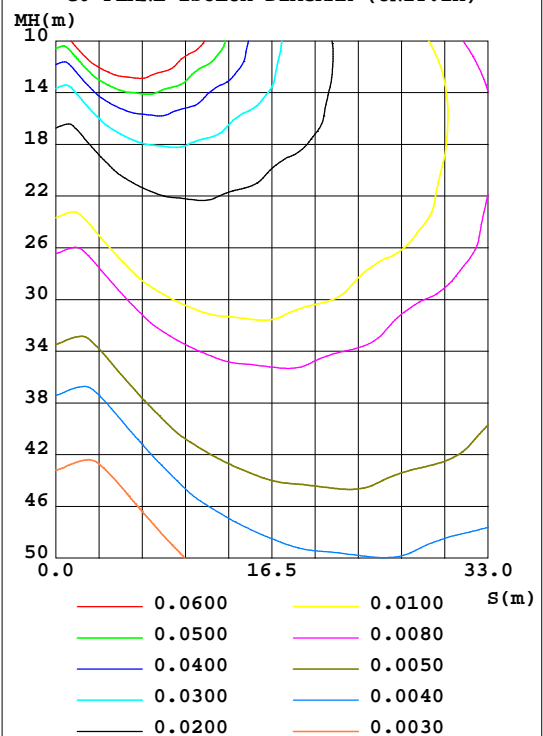
Test:U:12.00V I:0.1970A P:2.364W PF:0 Freq:0Hz Lamp Flux:256.13lx1 lm		
NAME: LED LINE LIGHT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance LED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 108.35 lm/W			
MODEL		I _{max} (cd)	30.12	S/MH(C0/180)	3.72
NOMINAL POWER(W)	2	LOR(%)	100.0	S/MH(C90/270)	3.63
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	256.13	h UP,DN(C0-180)	22.0,27.7
NOMINAL FLUX(lm)	256.131	CIE CLASS	DIFFUSE	h UP,DN(C180-360)	21.8,28.6
LAMPS INSIDE	1	h up(%)	43.7	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	230	h down(%)	56.3	CIBSE SHR MAX	2.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-04-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.872m [K=1.0000]
Remarks:

Checker:

Assessor:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C90	C180	C270					g	F zone	F total	%lum,lamp
10	7.433	7.641	9.041	7.641					0~ 10	0.6423	0.6423	0.25,0.25
20	11.58	11.43	13.19	11.43					10~ 20	2.881	3.523	1.38,1.38
30	14.78	14.65	16.42	14.65					20~ 30	6.352	9.875	3.86,3.86
40	17.39	17.13	19.40	17.13					30~ 40	10.48	20.35	7.95,7.95
50	21.36	20.78	22.86	20.78					40~ 50	15.29	35.65	13.9,13.9
60	23.80	23.26	25.46	23.26					50~ 60	20.05	55.70	21.7,21.7
70	27.30	28.08	29.64	28.08					60~ 70	26.06	81.76	31.9,31.9
80	29.10	29.49	29.96	29.49					70~ 80	30.93	112.7	44,44
90	27.56	27.74	28.44	27.74					80~ 90	31.41	144.1	56.3,56.3
100	26.10	26.57	26.89	26.57					90~100	29.44	173.5	67.8,67.8
110	25.10	25.05	25.39	25.05					100~110	27.67	201.2	78.6,78.6
120	20.33	19.70	19.49	19.70					110~120	22.61	223.8	87.4,87.4
130	14.69	14.24	13.84	14.24					120~130	15.25	239.1	93.3,93.3
140	10.62	10.07	9.373	10.07					130~140	9.384	248.5	97,97
150	6.873	6.279	5.369	6.279					140~150	5.147	253.6	99,99
160	3.054	2.553	1.177	2.553					150~160	2.026	255.6	99.8,99.8
170	1.005	0.9994	0.9821	0.9994					160~170	0.4060	256.0	100,100
180	1.005	1.005	0.9821	1.005					170~180	0.0951	256.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 27.273 lm

%lum = 10.6%

%lamp = 10.6%

Conical surface Flux(120deg): 55.699 lm

%lum = 21.7%

%lamp = 21.7%

C Range: 0 - 180DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2019-04-22

Checker:

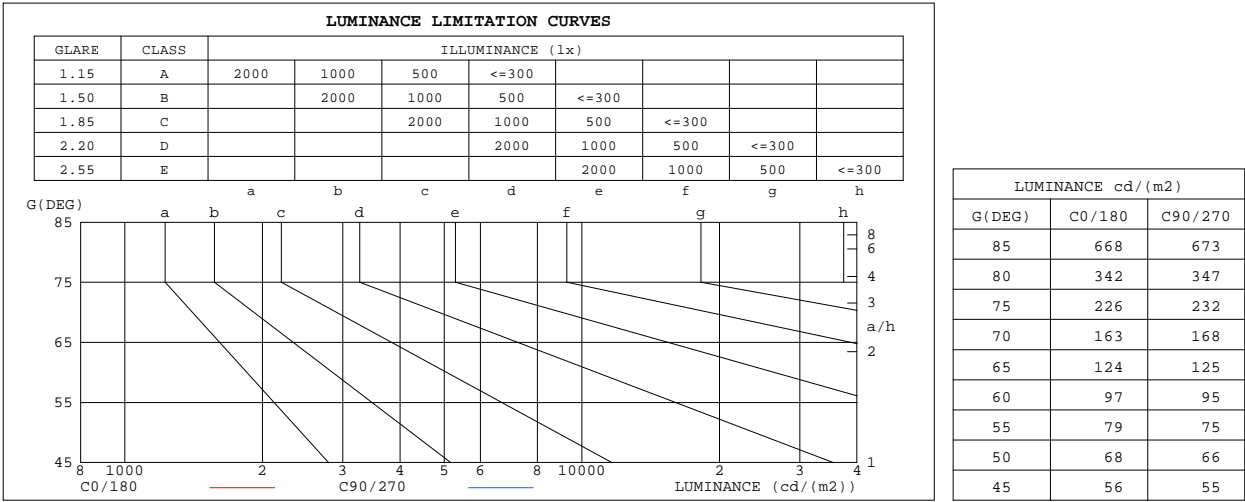
g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity:65.0%
 Test Distance:9.872m [K=1.0000]
 Remarks:

Assessor:

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LUMINANCE LIMITATION CURVES

Test:U:12.00V I:0.1970A P:2.364W PF:0 Freq:0Hz Lamp Flux:256.13lx1 lm		
NAME: LED LINE LIGHT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance LED	SUR.:	Shielding Angle:



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-04-22

Checker:

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.872m [K=1.0000]
Remarks:

Assessor:

WEC AND CCEC

Test:U:12.00V I:0.1970A P:2.364W PF:0 Freq:0Hz Lamp Flux:256.131x1 lm		
NAME: LED LINE LIGHT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance LED	SUR.:	Shielding Angle:

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.456	.259	.082	.435	.248	.079	.397	.227	.073	.361	.208	.067	.328	.190	.061	
2.0	.373	.204	.063	.354	.195	.060	.319	.177	.055	.286	.160	.050	.256	.145	.046	
3.0	.321	.171	.051	.304	.163	.049	.271	.147	.045	.241	.132	.041	.214	.118	.037	
4.0	.283	.147	.043	.267	.140	.041	.238	.126	.038	.210	.113	.034	.184	.100	.031	
5.0	.253	.129	.037	.239	.123	.036	.212	.110	.032	.186	.098	.029	.163	.087	.026	
6.0	.229	.115	.033	.216	.109	.031	.191	.098	.029	.168	.087	.026	.146	.077	.023	
7.0	.210	.104	.029	.198	.098	.028	.174	.088	.025	.153	.078	.023	.132	.069	.020	
8.0	.193	.094	.027	.182	.090	.025	.160	.080	.023	.140	.071	.021	.121	.062	.018	
9.0	.179	.087	.024	.169	.082	.023	.149	.073	.021	.130	.065	.019	.112	.057	.016	
10.0	.167	.080	.022	.157	.076	.021	.138	.068	.019	.121	.060	.017	.104	.052	.015	

r cc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.524	.524	.524	.448	.448	.448	.306	.306	.306	.176	.176	.176	.056	.056	.056	
1.0	.526	.491	.459	.450	.421	.395	.308	.290	.273	.177	.168	.159	.057	.054	.051	
2.0	.521	.470	.426	.447	.404	.369	.306	.280	.257	.176	.163	.151	.057	.053	.049	
3.0	.514	.455	.407	.441	.392	.353	.303	.273	.248	.175	.159	.146	.056	.052	.048	
4.0	.507	.443	.395	.435	.383	.343	.299	.267	.242	.173	.156	.143	.056	.051	.047	
5.0	.499	.434	.387	.429	.376	.336	.295	.263	.237	.171	.154	.141	.055	.050	.046	
6.0	.491	.427	.381	.422	.370	.331	.291	.259	.235	.169	.152	.139	.055	.050	.046	
7.0	.484	.421	.376	.417	.365	.328	.288	.256	.232	.167	.151	.138	.054	.049	.046	
8.0	.477	.416	.373	.411	.360	.325	.284	.253	.231	.165	.149	.138	.054	.049	.046	
9.0	.471	.411	.371	.406	.357	.323	.281	.251	.229	.164	.148	.137	.053	.049	.045	
10.0	.465	.407	.368	.401	.353	.322	.278	.249	.228	.162	.147	.136	.053	.048	.045	

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-04-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.872m [K=1.0000]
Remarks:

Checker:

Assessor:

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UGR(Unified Glare Rating) Table

Test:U:12.00V I:0.1970A P:2.364W PF:0 Freq:0Hz Lamp Flux:256.13lx1 lm										
NAME: LED LINE LIGHT					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: Brilliance LED					SUR.:			Shielding Angle:		
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	6.2	7.4	7.0	8.2	9.3	6.1	7.3	6.9	8.1	9.2
3H	10.0	11.1	10.9	12.0	13.1	10.1	11.2	10.9	12.1	13.2
4H	12.2	13.2	13.0	14.1	15.2	12.3	13.3	13.1	14.2	15.3
6H	14.5	15.4	15.3	16.3	17.5	14.6	15.5	15.4	16.4	17.6
8H	15.7	16.6	16.5	17.5	18.7	15.8	16.7	16.6	17.6	18.8
12H	17.0	17.9	17.9	18.8	20.0	17.1	18.0	17.9	18.9	20.1
4H 2H	7.4	8.4	8.2	9.3	10.4	7.3	8.4	8.2	9.2	10.4
3H	11.3	12.2	12.2	13.1	14.3	11.3	12.3	12.2	13.2	14.3
4H	13.5	14.4	14.4	15.3	16.5	13.6	14.5	14.5	15.4	16.6
6H	15.9	16.7	16.8	17.6	18.8	16.0	16.8	16.9	17.7	18.9
8H	17.2	17.9	18.1	18.9	20.1	17.3	18.0	18.2	18.9	20.2
12H	18.6	19.3	19.5	20.2	21.5	18.7	19.3	19.6	20.3	21.5
8H 4H	14.3	15.1	15.3	16.0	17.2	14.4	15.1	15.3	16.1	17.3
6H	17.0	17.6	17.9	18.5	19.8	17.0	17.6	18.0	18.6	19.9
8H	18.4	19.0	19.4	19.9	21.2	18.5	19.0	19.4	20.0	21.3
12H	20.0	20.5	21.0	21.5	22.8	20.1	20.6	21.0	21.6	22.8
12H 4H	14.6	15.2	15.5	16.2	17.4	14.6	15.3	15.6	16.3	17.5
6H	17.3	17.9	18.3	18.8	20.1	17.4	17.9	18.3	18.9	20.2
8H	18.9	19.3	19.8	20.3	21.6	18.9	19.4	19.9	20.4	21.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 256.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.7)

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-04-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.872m [K=1.0000]
Remarks:

Checker:

Assessor:

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UTILIZATION FACTORS TABLE

Test:U:12.00V I:0.1970A P:2.364W PF:0 Freq:0Hz Lamp Flux:256.13lx1 lm		
NAME: LED LINE LIGHT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance LED	SUR.:	Shielding Angle:

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) $k(RI) \times RCR = 5$									
$k = 0.60$	35	22	14	33	21	14	30	19	13	6
0.80	43	29	20	41	27	19	36	25	17	8
1.00	50	35	25	47	33	24	42	32	22	11
1.25	57	42	32	53	40	30	47	35	27	14
1.50	62	47	37	58	45	35	51	40	31	17
2.00	70	56	46	65	53	43	56	46	39	22
2.50	76	63	52	70	59	49	60	51	44	25
3.00	80	68	58	74	63	55	64	55	48	28
4.00	85	75	66	79	70	62	68	61	54	32
5.00	89	80	72	83	74	67	71	64	59	35
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 180DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019-04-22

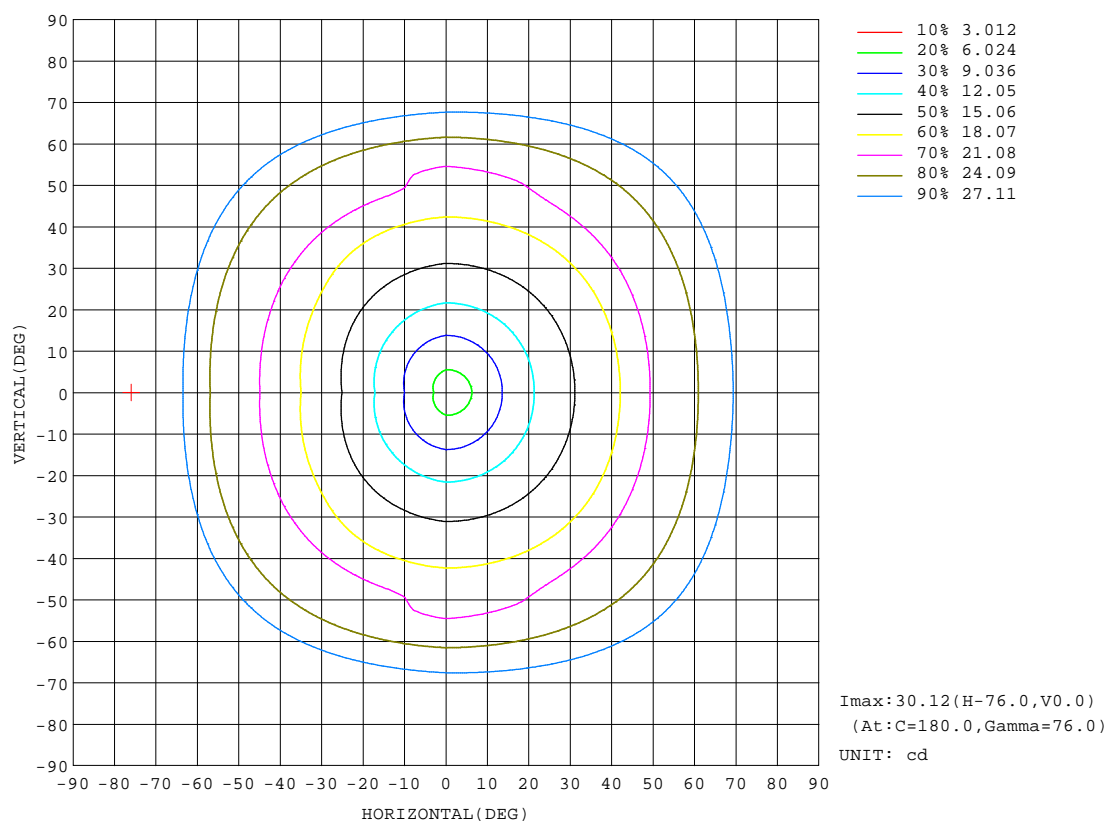
g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity: 65.0%
 Test Distance: 9.872m [K=1.0000]
 Remarks:

Checker:

Assessor:

ISOCANDELA DIAGRAM

Test:U:12.00V I:0.1970A P:2.364W PF:0 Freq:0Hz Lamp Flux:256.13lx1 lm		
NAME: LED LINE LIGHT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance LED	SUR.:	Shielding Angle:



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2019-04-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.361
Humidity: 65.0%
Test Distance: 9.872m [K=1.0000]
Remarks:

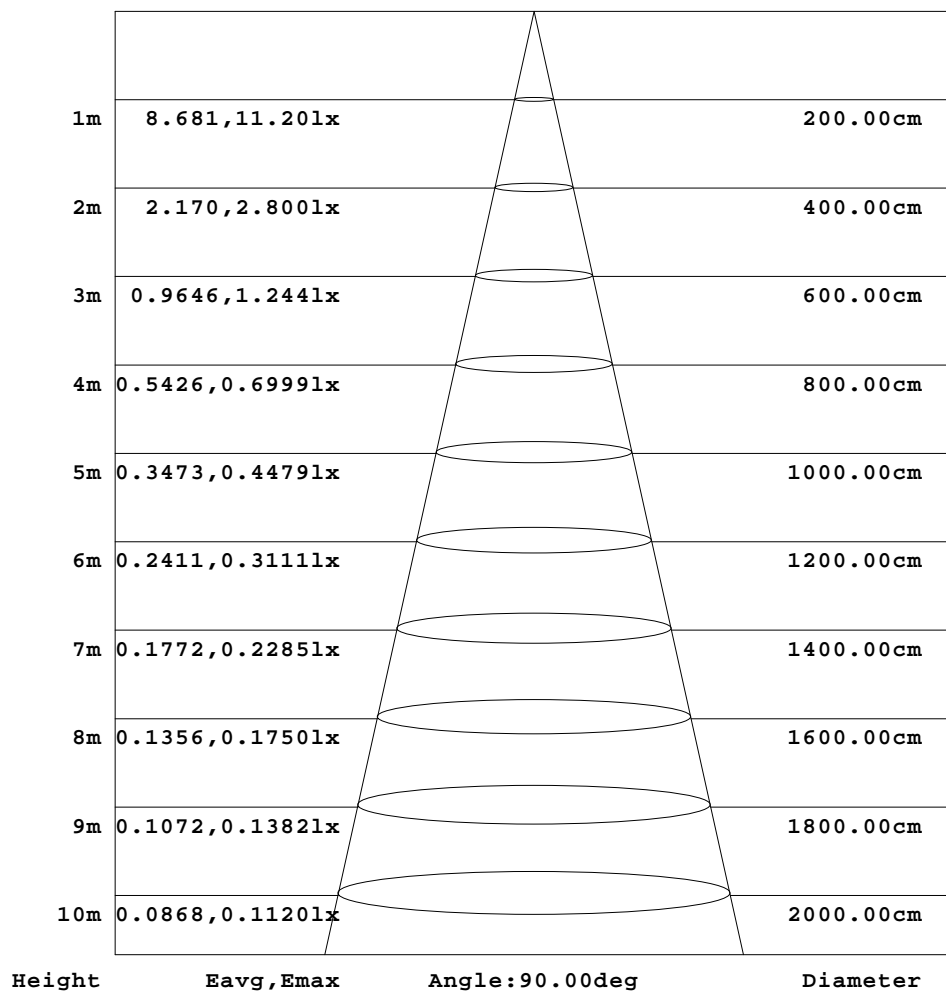
Checker:

Assessor:

AAI Figure

Test:U:12.00V I:0.1970A P:2.364W PF:0 Freq:0Hz Lamp Flux:256.13lx1 lm		
NAME: LED LINE LIGHT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance LED	SUR.:	Shielding Angle:

Flux out:27.27 lm



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

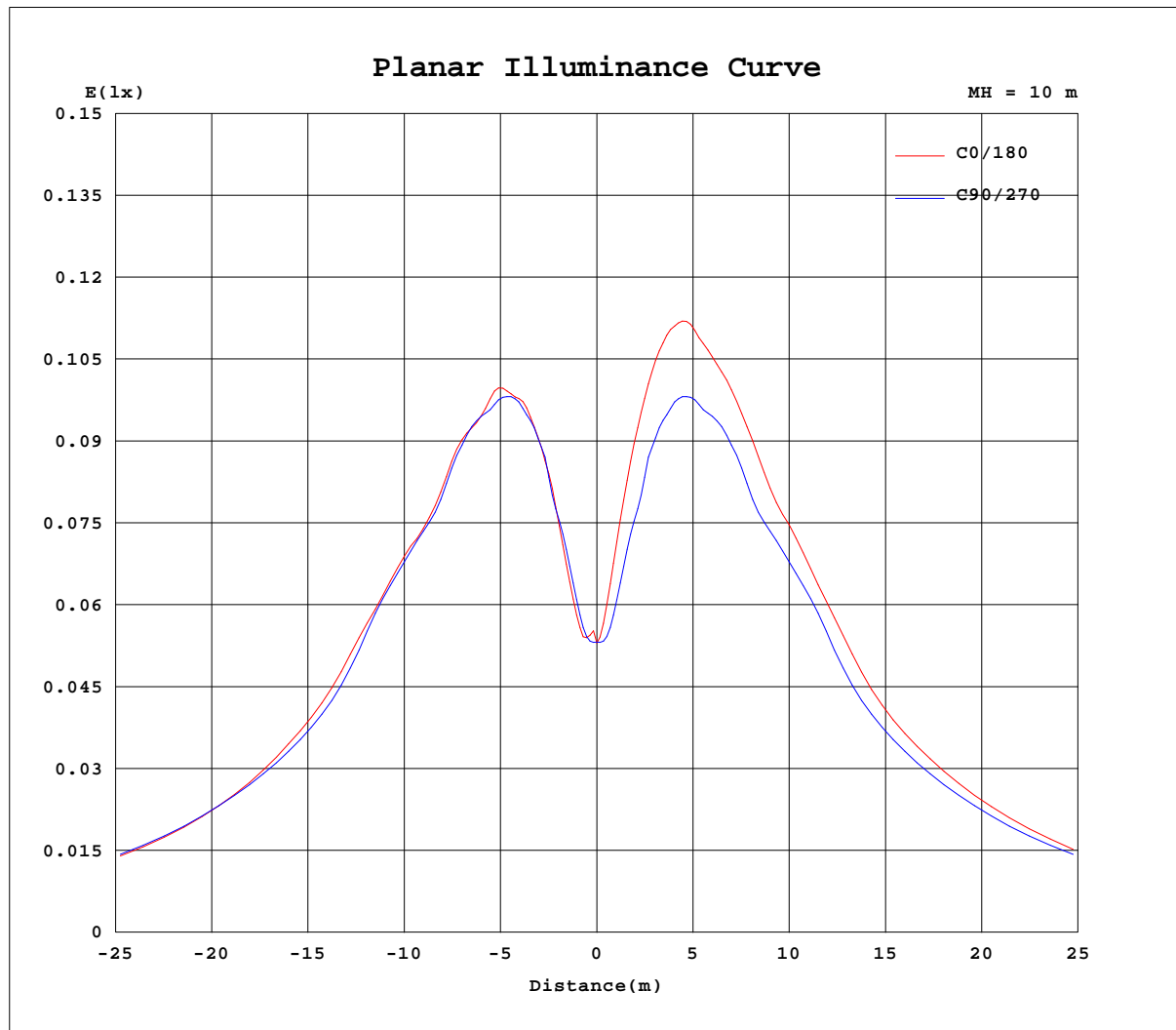
C Range: 0 - 180DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019-04-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.361
 Humidity: 65.0%
 Test Distance: 9.872m [K=1.0000]
 Remarks:

Checker:

Assessor:

Planar Illuminance Curve



C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2019-04-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.361
Humidity: 65.0%
Test Distance: 9.872m [K=1.0000]
Remarks:

Checker:

Assessor:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.00V I:0.1970A P:2.364W PF:0 Freq:0Hz Lamp Flux:256.13lx1 lm		
NAME: LED LINE LIGHT	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Brilliance LED	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEC) g (DEC)	0	90	180	270															
0	5.60	5.32	5.30	5.32															
5	5.65	5.88	6.84	5.88															
10	7.43	7.64	9.04	7.64															
15	9.59	9.66	11.2	9.66															
20	11.6	11.4	13.2	11.4															
25	13.3	13.2	15.0	13.2															
30	14.8	14.6	16.4	14.6															
35	16.4	16.3	18.1	16.3															
40	17.4	17.1	19.4	17.1															
45	19.5	19.2	21.1	19.2															
50	21.4	20.8	22.9	20.8															
55	22.3	21.2	23.6	21.2															
60	23.8	23.3	25.5	23.3															
65	25.6	25.8	27.8	25.8															
70	27.3	28.1	29.6	28.1															
75	28.6	29.5	30.1	29.5															
80	29.1	29.5	30.0	29.5															
85	28.5	28.7	29.3	28.7															
90	27.6	27.7	28.4	27.7															
95	26.5	26.9	27.3	26.9															
100	26.1	26.6	26.9	26.6															
105	26.1	26.3	26.7	26.3															
110	25.1	25.1	25.4	25.1															
115	23.2	22.9	22.7	22.9															
120	20.3	19.7	19.5	19.7															
125	17.5	16.9	16.4	16.9															
130	14.7	14.2	13.8	14.2															
135	12.6	12.0	11.5	12.0															
140	10.6	10.1	9.37	10.1															
145	8.77	8.12	7.48	8.12															
150	6.87	6.28	5.37	6.28															
155	4.91	4.29	3.51	4.29															
160	3.05	2.55	1.18	2.55															
165	1.03	1.22	0.99	1.22															
170	1.01	1.00	0.98	1.00															
175	1.01	1.00	0.98	1.00															
180	1.01	1.01	0.98	1.01															

C Range: 0 - 180DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-04-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.361
Humidity:65.0%
Test Distance:9.872m [K=1.0000]
Remarks:

Checker:

Assessor:

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