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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014

Prepared For
Enolight Ltd
17-25 Valleywood Dr
Markham, ON L3R 5L9
Canada

Catalog Number
SPK6015F (3000K)

Order Number
14167256
Test Number
14167256.03

Test Date
2022-01-20

Prepared By

Josh Mitchell, Technician

Approved By

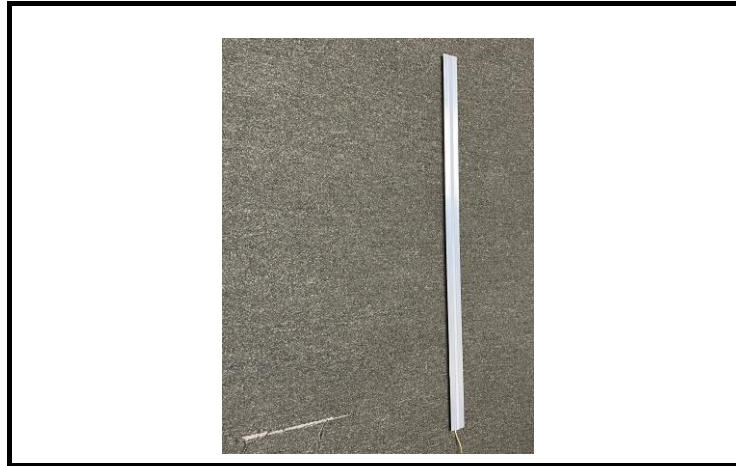
Alexa Lambert, Project Handler

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Luminaire Description: Formed aluminum housing, frosted plastic lens enclosure
Lamp: 280 white LEDs
Mounting: Recessed
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Length: 49.00 in.
Luminous Width: 0.5000 in.

Summary of Results

Total Luminaire Output: 616.6 Lumens
Luminaire Efficacy: 41.1 lm/w
Maximum Candela: 231 Candela

Test Conditions

Test Temperature: 25.5 °C
Voltage: 24.00 VDC
Current: 0.6260 A
Power: 15.02 W

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

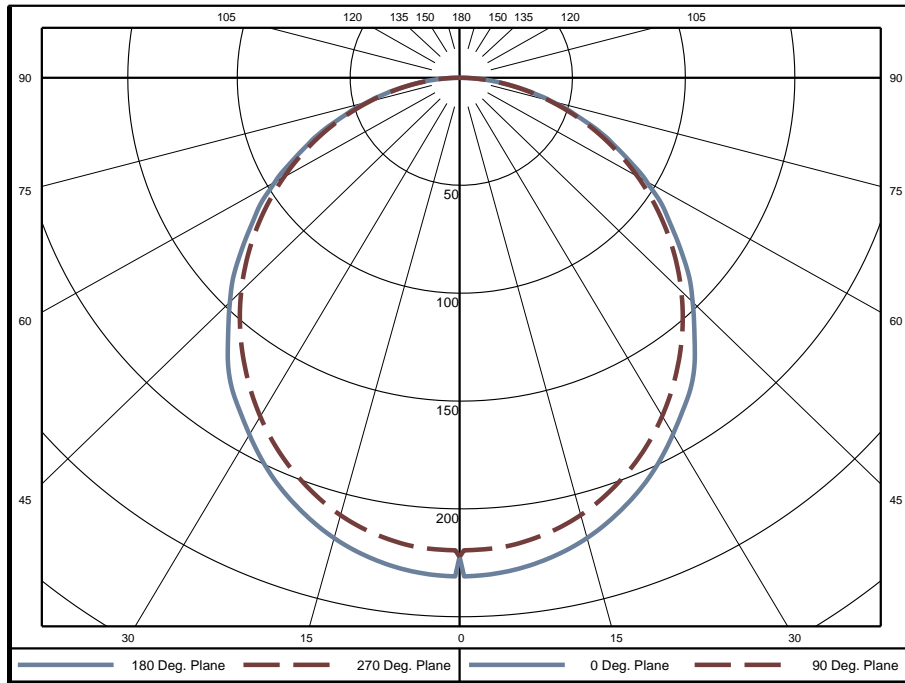
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	24.00 VDC	0.6260 A	15.02 W	N/A	N/A	N/A

Summary of Results

Spacing Criteria	Total Lumen Output:	616.6 Lumens
0-180: 1.27	Luminaire Efficacy:	41.1 lm/w
90-270: 1.21	Maximum Candela:	231 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)	Endwise:	25.2
Crosswise: 25.3		

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	5.30	0.9%	60-65	40.72	6.6%	120-125	0	0.0%
5-10	15.72	2.5%	65-70	33.84	5.5%	125-130	0	0.0%
10-15	25.54	4.1%	70-75	26.16	4.2%	130-135	0	0.0%
15-20	34.37	5.6%	75-80	18.16	2.9%	135-140	0	0.0%
20-25	41.88	6.8%	80-85	10.36	1.7%	140-145	0	0.0%
25-30	47.82	7.8%	85-90	3.46	0.6%	145-150	0	0.0%
30-35	52.07	8.4%	90-95	0	0.0%	150-155	0	0.0%
35-40	54.62	8.9%	95-100	0	0.0%	155-160	0	0.0%
40-45	55.14	8.9%	100-105	0	0.0%	160-165	0	0.0%
45-50	53.90	8.7%	105-110	0	0.0%	165-170	0	0.0%
50-55	50.97	8.3%	110-115	0	0.0%	170-175	0	0.0%
55-60	46.56	7.6%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	277	45.0%
0-60	484	78.5%
0-90	617	100.0%
90-180	0	0.0%



Candela Tabulation

Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2	222.2
5	230.2	221.7	219.6	219.6	218.5	219.6	219.6	221.7	230.2	221.7	219.6	219.6	218.5	219.6	219.6	221.7
10	226.7	218.5	216.4	216.3	215.2	216.3	216.4	218.5	226.7	218.5	216.4	216.3	215.2	216.3	216.4	218.5
15	221.0	213.0	210.7	210.6	209.6	210.6	210.7	213.0	221.0	213.0	210.7	210.6	209.6	210.6	210.7	213.0
20	213.0	205.2	203.1	202.7	201.5	202.7	203.1	205.2	213.0	205.2	203.1	202.7	201.5	202.7	203.1	205.2
25	203.2	195.4	193.2	192.9	191.8	192.9	193.2	195.4	203.2	195.4	193.2	192.9	191.8	192.9	193.2	195.4
30	191.3	183.8	181.9	181.3	180.3	181.3	181.9	183.8	191.3	183.8	181.9	181.3	180.3	181.3	181.9	183.8
35	179.3	171.0	169.4	168.5	167.4	168.5	169.4	171.0	179.3	171.0	169.4	168.5	167.4	168.5	169.4	171.0
40	164.2	157.8	155.4	154.6	153.6	154.6	155.4	157.8	164.2	157.8	155.4	154.6	153.6	154.6	155.4	157.8
45	148.0	141.4	140.4	139.9	138.9	139.9	140.4	141.4	148.0	141.4	140.4	139.9	138.9	139.9	140.4	141.4
50	131.6	125.7	124.6	124.3	123.3	124.3	124.6	125.7	131.6	125.7	124.6	124.3	123.3	124.3	124.6	125.7
55	114.3	109.1	108.3	108.2	107.2	108.2	108.3	109.1	114.3	109.1	108.3	108.2	107.2	108.2	108.3	109.1
60	97.3	92.2	91.6	91.5	90.8	91.5	91.6	92.2	97.3	92.2	91.6	91.5	90.8	91.5	91.6	92.2
65	78.7	75.1	74.7	74.7	74.1	74.7	74.7	75.1	78.7	75.1	74.7	74.7	74.1	74.7	74.7	75.1
70	60.9	58.2	58.0	58.1	57.7	58.1	58.0	58.2	60.9	58.2	58.0	58.1	57.7	58.1	58.0	58.2
75	43.2	41.5	41.6	41.8	41.5	41.8	41.6	41.5	43.2	41.5	41.6	41.8	41.5	41.8	41.6	41.5
80	27.6	26.0	26.1	26.3	26.1	26.3	26.1	26.0	27.6	26.0	26.1	26.3	26.1	26.3	26.1	26.0
85	13.0	11.8	12.1	12.4	12.4	12.4	12.1	11.8	13.0	11.8	12.1	12.4	12.4	12.4	12.1	11.8
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

	0	45	90
0	14060	14060	14060
45	13240	12560	12420
55	12610	11950	11830
65	11780	11190	11100
75	10570	10180	10130
85	9447	8749	8994

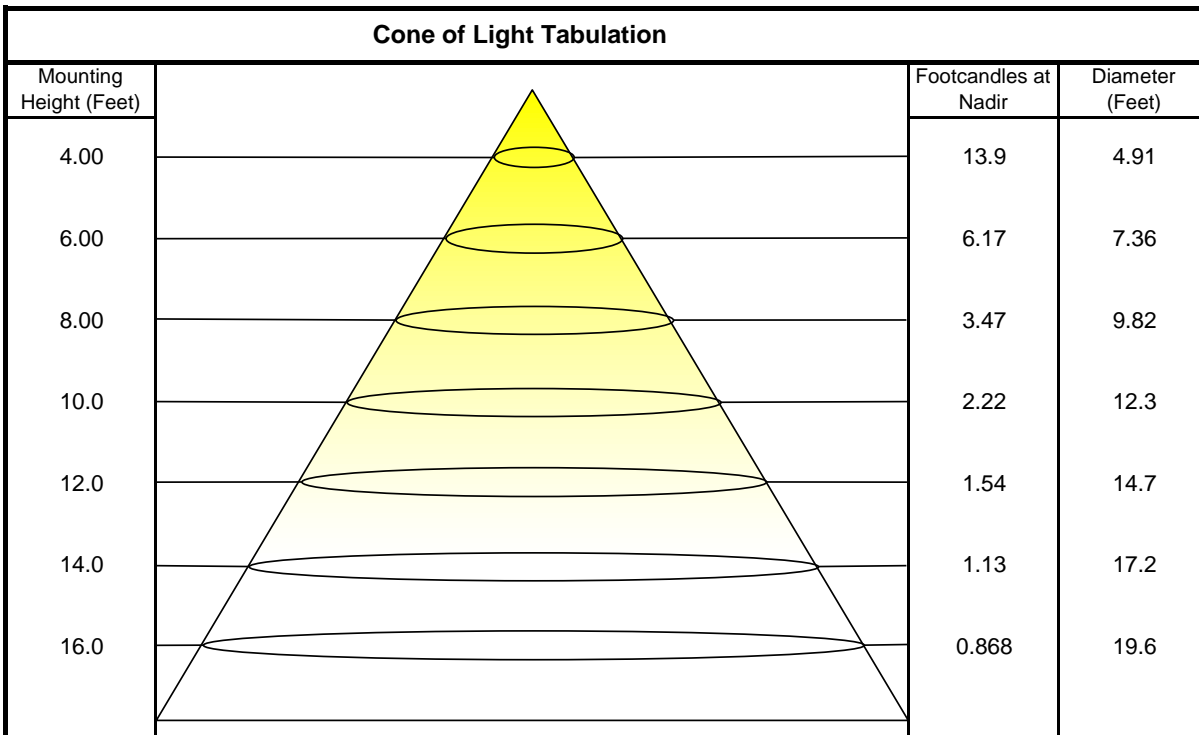


Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	222.2 Candela
Central Cone Intensity:	222 Candela
Beam Flux:	431.1 Lumens
Beam Angle (0-180):	112.2 Degrees
Beam Angle (90-270):	107.6 Degrees
Field Angle (0-180):	163.5 Degrees
Field Angle (90-270):	162.7 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet

