

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-22-W-FL-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-22-W-FL-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

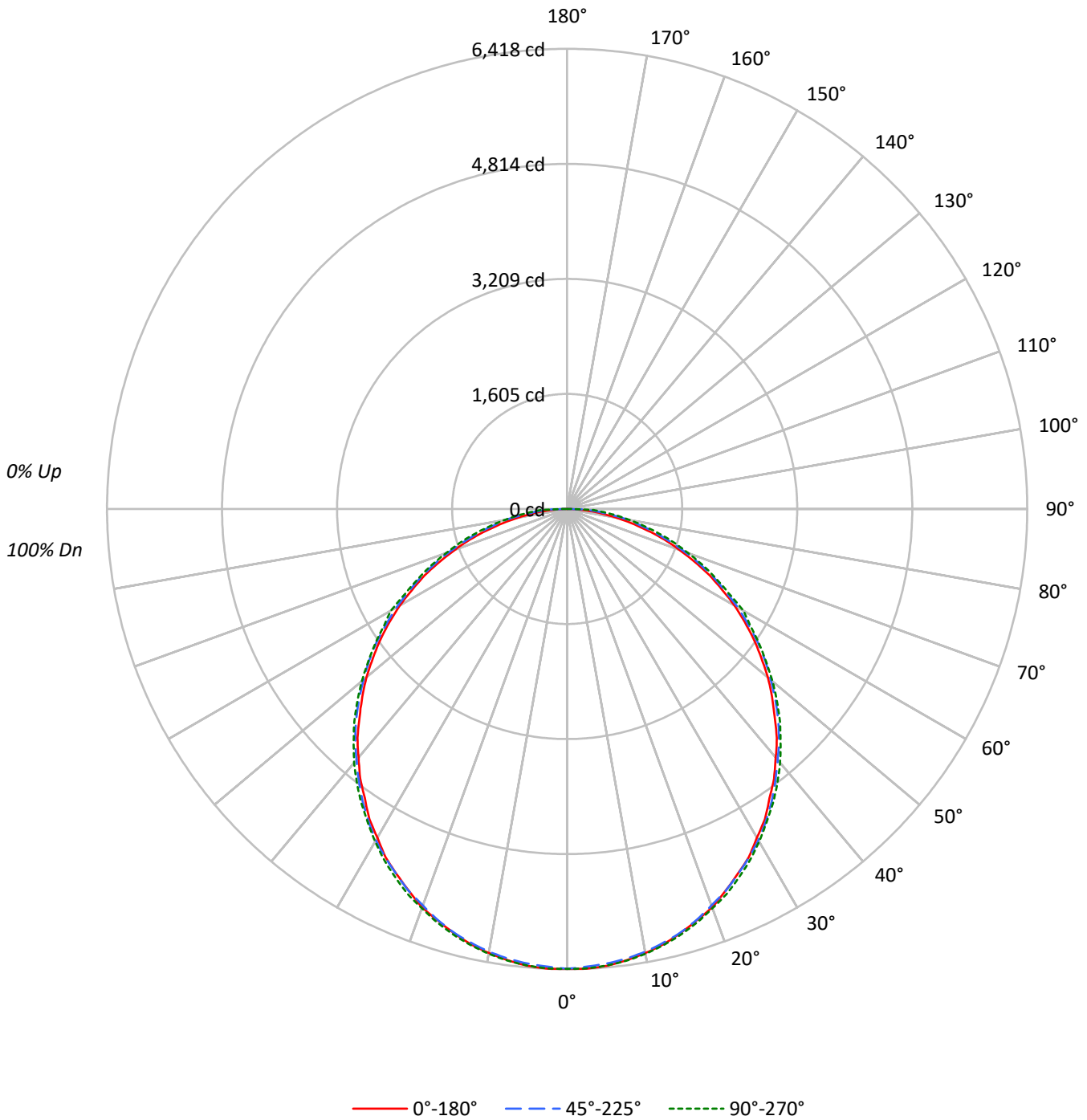
Lumens per Lamp: N/A
Luminaire Lumens: 18162.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9415	9415	9415
5°	9412	9308	9328
10°	9353	9205	9211
15°	9271	9083	9072
20°	9196	8913	8905
25°	9052	8764	8740
30°	8906	8615	8544
35°	8741	8406	8334
40°	8583	8165	8113
45°	8389	7954	7856
50°	8223	7678	7558
55°	8005	7400	7232
60°	7741	7026	7009
65°	7410	6598	6435
70°	6906	6041	5919
75°	6292	5423	5343
80°	5504	4859	4620
85°	4605	3660	3846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.2	3.3
10°-20°	1728.1	9.5
20°-30°	2600.4	14.3
30°-40°	3111.0	17.1
40°-50°	3205.9	17.7
50°-60°	2890.4	15.9
60°-70°	2220.0	12.2
70°-80°	1336.6	7.4
80°-90°	463.4	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4934.7	27.2
0°-40°	8045.7	44.3
0°-60°	14142.0	77.9
0°-90°	18162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6414	6414	6414	6414	6414	
5°	6395	6388	6365	6388	6391	607
15°	6122	6128	6115	6141	6145	1728
25°	5622	5625	5628	5661	5671	2592
35°	4921	4970	4974	5003	5006	3085
45°	4092	4128	4161	4194	4197	3163
55°	3184	3210	3247	3266	3266	2842
65°	2191	2197	2250	2276	2286	2159
75°	1161	1194	1263	1309	1326	1233
85°	312	362	431	490	513	352
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6414.3	6414.3	6414.3	6414.3	6414.3
2.5°	6417.6	6414.3	6388.0	6407.7	6414.3
5°	6394.6	6388.0	6365.0	6388.0	6391.3
7.5°	6348.5	6345.2	6325.5	6348.5	6355.1
10°	6289.3	6289.3	6269.6	6292.6	6299.2
12.5°	6216.9	6213.6	6197.2	6223.5	6230.1
15°	6121.5	6128.1	6115.0	6141.3	6144.6
17.5°	6016.3	6019.6	6009.7	6032.7	6042.6
20°	5914.3	5897.9	5884.7	5924.2	5927.5
22.5°	5766.3	5772.9	5769.6	5805.8	5812.3
25°	5621.6	5624.8	5628.1	5661.0	5670.9
27.5°	5480.1	5476.8	5486.7	5513.0	5522.9
30°	5292.6	5318.9	5335.4	5355.1	5358.4
32.5°	5131.4	5141.3	5161.0	5174.2	5177.5
35°	4920.9	4970.3	4973.5	5003.1	5006.4
37.5°	4740.0	4756.4	4772.9	4809.1	4815.7
40°	4526.2	4549.2	4568.9	4601.8	4621.6
42.5°	4328.8	4355.1	4374.9	4404.5	4407.8
45°	4092.0	4128.2	4161.1	4194.0	4197.2
47.5°	3874.9	3911.1	3937.4	3963.7	3967.0
50°	3654.5	3684.1	3707.1	3740.0	3740.0
52.5°	3411.1	3447.3	3483.5	3496.6	3496.6
55°	3184.1	3210.4	3246.6	3266.4	3266.4
57.5°	2937.4	2950.6	2990.0	3026.2	3026.2
60°	2694.0	2710.4	2749.9	2776.2	2838.7
62.5°	2434.1	2460.5	2486.8	2572.3	2536.1
65°	2190.7	2197.3	2249.9	2276.3	2286.1
67.5°	1921.0	1944.0	1996.7	2026.3	2046.0
70°	1664.4	1694.0	1740.1	1776.3	1792.7
72.5°	1421.0	1434.2	1493.4	1542.7	1565.7
75°	1161.2	1194.0	1263.1	1309.2	1325.6
77.5°	914.4	967.1	1032.9	1194.0	1101.9
80°	697.3	736.8	855.2	861.8	884.8
82.5°	486.8	532.9	611.8	664.5	690.8
85°	312.5	361.8	430.9	490.1	513.1
87.5°	144.7	197.4	286.2	352.0	371.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)