

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-FLWG-UNV-L840-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 (P34182)
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-FLWG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

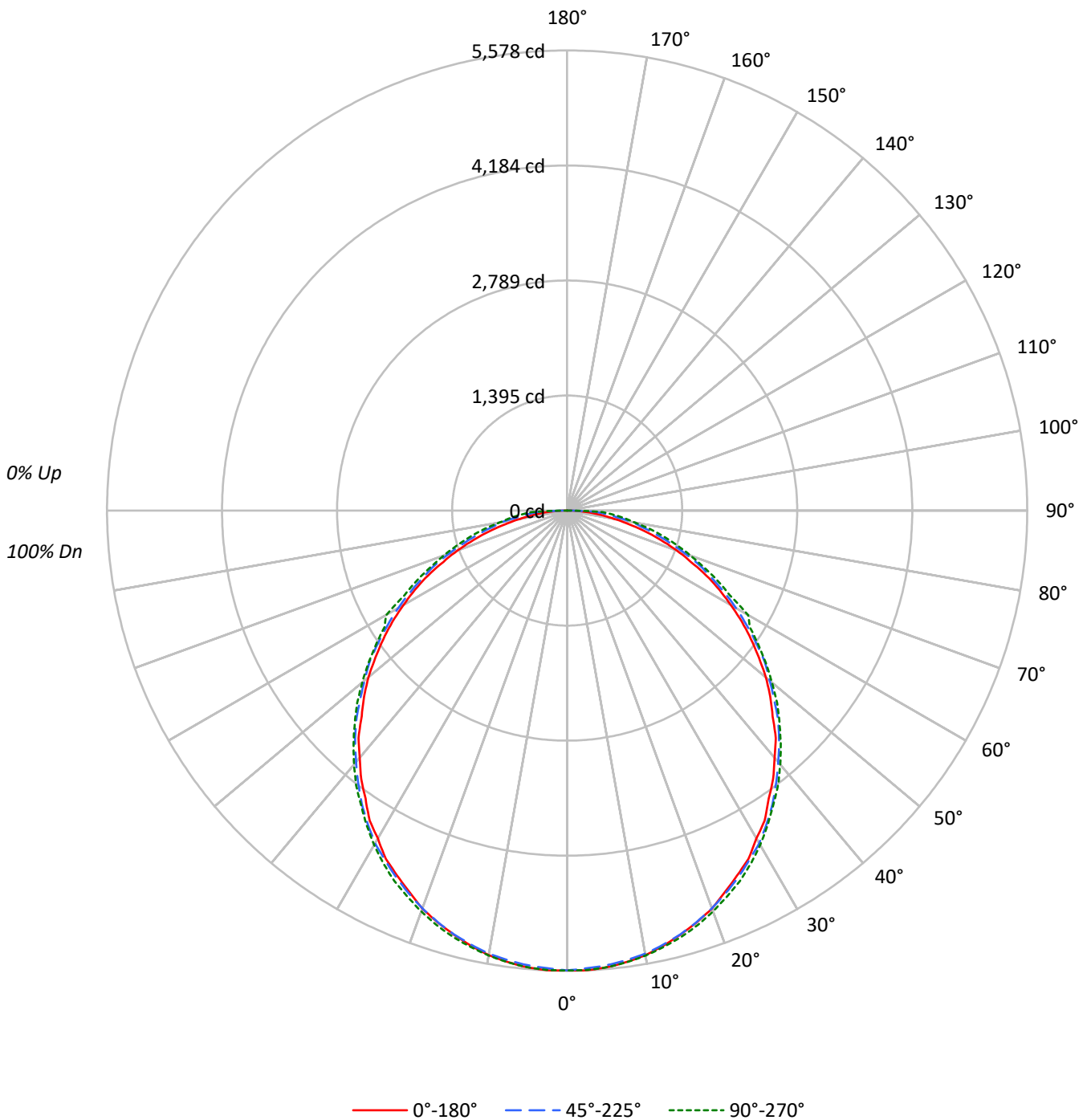
Lumens per Lamp: N/A
Luminaire Lumens: 15853.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8182	8182	8182
5°	8178	8090	8109
10°	8137	8006	8010
15°	8056	7896	7898
20°	7982	7771	7767
25°	7855	7638	7635
30°	7722	7518	7463
35°	7569	7335	7250
40°	7416	7115	7052
45°	7220	6918	6813
50°	7076	6639	6551
55°	6843	6377	6255
60°	6589	6046	6255
65°	6295	5672	5667
70°	5868	5279	5242
75°	5339	4792	4866
80°	4609	4545	4336
85°	3943	3927	4126



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.1	3.3
10°-20°	1503.4	9.5
20°-30°	2264.1	14.3
30°-40°	2707.7	17.1
40°-50°	2780.7	17.5
50°-60°	2497.2	15.8
60°-70°	1921.4	12.1
70°-80°	1184.3	7.5
80°-90°	467.1	2.9
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°	4294.6	27.1
0°-40°	7002.3	44.2
0°-60°	12280.2	77.5
0°-90°	15853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5575	5575	5575	5575	5575	
5°	5556	5553	5532	5553	5556	528
15°	5319	5328	5316	5337	5350	1501
25°	4878	4884	4906	4942	4954	2250
35°	4261	4322	4340	4355	4355	2672
45°	3522	3576	3619	3634	3640	2728
55°	2722	2758	2798	2828	2825	2433
65°	1861	1880	1934	2001	2013	1835
75°	985	1037	1116	1189	1207	1041
85°	268	356	462	529	550	306
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5574.6	5574.6	5574.6	5574.6	5574.6
2.5°	5577.7	5574.6	5553.3	5568.5	5574.6
5°	5556.4	5553.3	5532.0	5553.3	5556.4
7.5°	5519.9	5519.9	5498.6	5519.9	5522.9
10°	5471.2	5471.2	5453.0	5471.2	5477.3
12.5°	5401.3	5407.3	5389.1	5410.4	5416.5
15°	5319.1	5328.3	5316.1	5337.4	5349.6
17.5°	5231.0	5234.0	5227.9	5255.3	5267.4
20°	5133.6	5130.6	5130.6	5167.1	5170.1
22.5°	5002.9	5018.1	5021.1	5060.6	5063.7
25°	4878.2	4884.2	4905.5	4942.0	4954.2
27.5°	4759.6	4756.5	4777.8	4811.3	4823.4
30°	4589.2	4619.7	4656.2	4668.3	4680.5
32.5°	4455.4	4464.6	4501.1	4513.2	4522.3
35°	4260.8	4321.6	4339.9	4355.1	4355.1
37.5°	4102.6	4136.1	4160.4	4187.8	4200.0
40°	3911.0	3953.6	3981.0	4008.4	4017.5
42.5°	3743.8	3771.2	3804.6	3825.9	3832.0
45°	3521.8	3576.5	3619.1	3634.3	3640.4
47.5°	3339.3	3400.1	3406.2	3442.7	3451.8
50°	3144.7	3190.3	3205.5	3248.1	3242.0
52.5°	2928.7	2983.5	3020.0	3032.1	3035.2
55°	2721.9	2758.4	2798.0	2828.4	2825.3
57.5°	2512.1	2542.5	2575.9	2621.6	2624.6
60°	2293.1	2329.6	2366.1	2411.7	2533.4
62.5°	2080.2	2101.5	2144.1	2232.3	2223.2
65°	1861.2	1879.5	1934.2	2001.1	2013.3
67.5°	1624.0	1660.5	1742.6	1785.2	1791.3
70°	1414.2	1447.6	1520.6	1575.4	1587.5
72.5°	1192.2	1231.7	1310.8	1380.7	1399.0
75°	985.4	1037.1	1116.1	1189.1	1207.4
77.5°	772.5	839.4	933.7	1110.1	1024.9
80°	583.9	660.0	799.8	821.1	830.3
82.5°	416.7	498.8	599.1	672.1	696.4
85°	267.6	355.8	462.3	529.2	550.5
87.5°	149.0	234.2	346.7	413.6	431.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)