

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-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 (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-L850-CD2-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

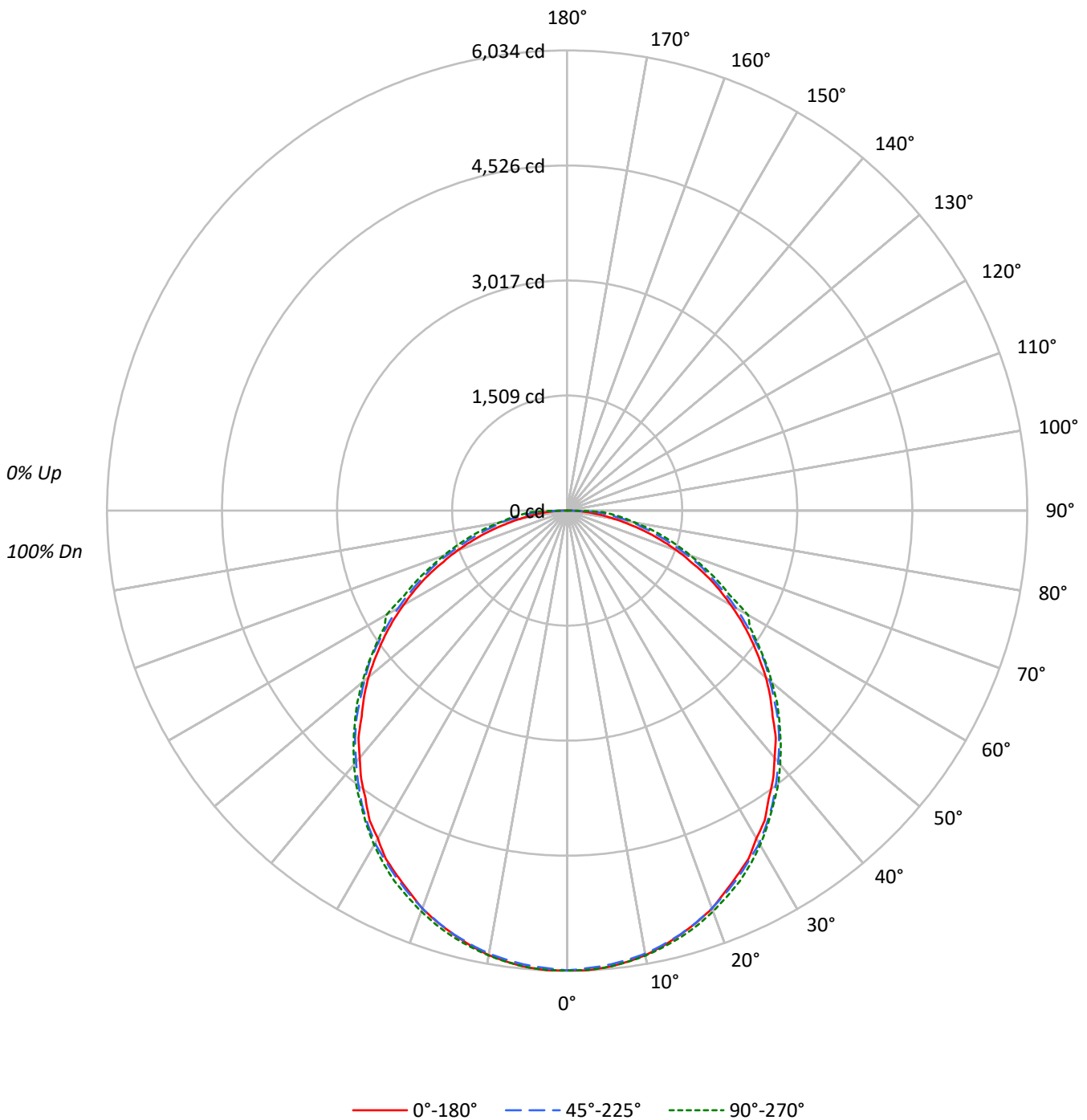
Lumens per Lamp: N/A
Luminaire Lumens: 17149.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	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	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
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	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	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°	8851	8851	8851
5°	8846	8752	8772
10°	8802	8660	8664
15°	8715	8542	8544
20°	8635	8406	8402
25°	8497	8263	8259
30°	8354	8133	8073
35°	8187	7935	7843
40°	8022	7696	7629
45°	7811	7483	7370
50°	7654	7182	7087
55°	7403	6898	6767
60°	7128	6540	6767
65°	6810	6136	6130
70°	6347	5710	5670
75°	5775	5184	5264
80°	4986	4916	4690
85°	4266	4248	4463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.2	3.3
10°-20°	1626.3	9.5
20°-30°	2449.2	14.3
30°-40°	2929.0	17.1
40°-50°	3008.0	17.5
50°-60°	2701.3	15.8
60°-70°	2078.5	12.1
70°-80°	1281.1	7.5
80°-90°	505.3	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°	4645.7	27.1
0°-40°	7574.7	44.2
0°-60°	13284.1	77.5
0°-90°	17149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6030	6030	6030	6030	6030	
5°	6011	6007	5984	6007	6011	571
15°	5754	5764	5751	5774	5787	1624
25°	5277	5284	5307	5346	5359	2434
35°	4609	4675	4695	4711	4711	2891
45°	3810	3869	3915	3931	3938	2951
55°	2944	2984	3027	3060	3056	2632
65°	2013	2033	2092	2165	2178	1986
75°	1066	1122	1207	1286	1306	1126
85°	290	385	500	572	596	331
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6030.3	6030.3	6030.3	6030.3	6030.3
2.5°	6033.6	6030.3	6007.3	6023.8	6030.3
5°	6010.6	6007.3	5984.3	6007.3	6010.6
7.5°	5971.1	5971.1	5948.1	5971.1	5974.4
10°	5918.5	5918.5	5898.7	5918.5	5925.1
12.5°	5842.8	5849.4	5829.7	5852.7	5859.3
15°	5754.0	5763.9	5750.7	5773.7	5786.9
17.5°	5658.6	5661.9	5655.3	5684.9	5698.1
20°	5553.3	5550.0	5550.0	5589.5	5592.8
22.5°	5411.8	5428.3	5431.6	5474.4	5477.6
25°	5277.0	5283.5	5306.6	5346.0	5359.2
27.5°	5148.7	5145.4	5168.4	5204.6	5217.7
30°	4964.4	4997.3	5036.8	5050.0	5063.1
32.5°	4819.7	4829.5	4869.0	4882.2	4892.0
35°	4609.1	4674.9	4694.7	4711.1	4711.1
37.5°	4438.0	4474.2	4500.6	4530.2	4543.3
40°	4230.8	4276.8	4306.4	4336.1	4345.9
42.5°	4049.8	4079.4	4115.6	4138.7	4145.2
45°	3809.7	3868.9	3915.0	3931.4	3938.0
47.5°	3612.3	3678.1	3684.7	3724.1	3734.0
50°	3401.7	3451.1	3467.5	3513.6	3507.0
52.5°	3168.2	3227.4	3266.8	3280.0	3283.3
55°	2944.4	2983.9	3026.7	3059.6	3056.3
57.5°	2717.4	2750.3	2786.5	2835.9	2839.2
60°	2480.6	2520.0	2559.5	2608.9	2740.5
62.5°	2250.3	2273.3	2319.4	2414.8	2404.9
65°	2013.4	2033.1	2092.4	2164.7	2177.9
67.5°	1756.8	1796.3	1885.1	1931.2	1937.7
70°	1529.8	1566.0	1644.9	1704.2	1717.3
72.5°	1289.6	1332.4	1417.9	1493.6	1513.3
75°	1065.9	1121.8	1207.4	1286.3	1306.1
77.5°	835.6	908.0	1010.0	1200.8	1108.7
80°	631.7	713.9	865.2	888.3	898.1
82.5°	450.7	539.5	648.1	727.1	753.4
85°	289.5	384.9	500.1	572.4	595.5
87.5°	161.2	253.3	375.0	447.4	467.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)