

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-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 (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-L840-CD2-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

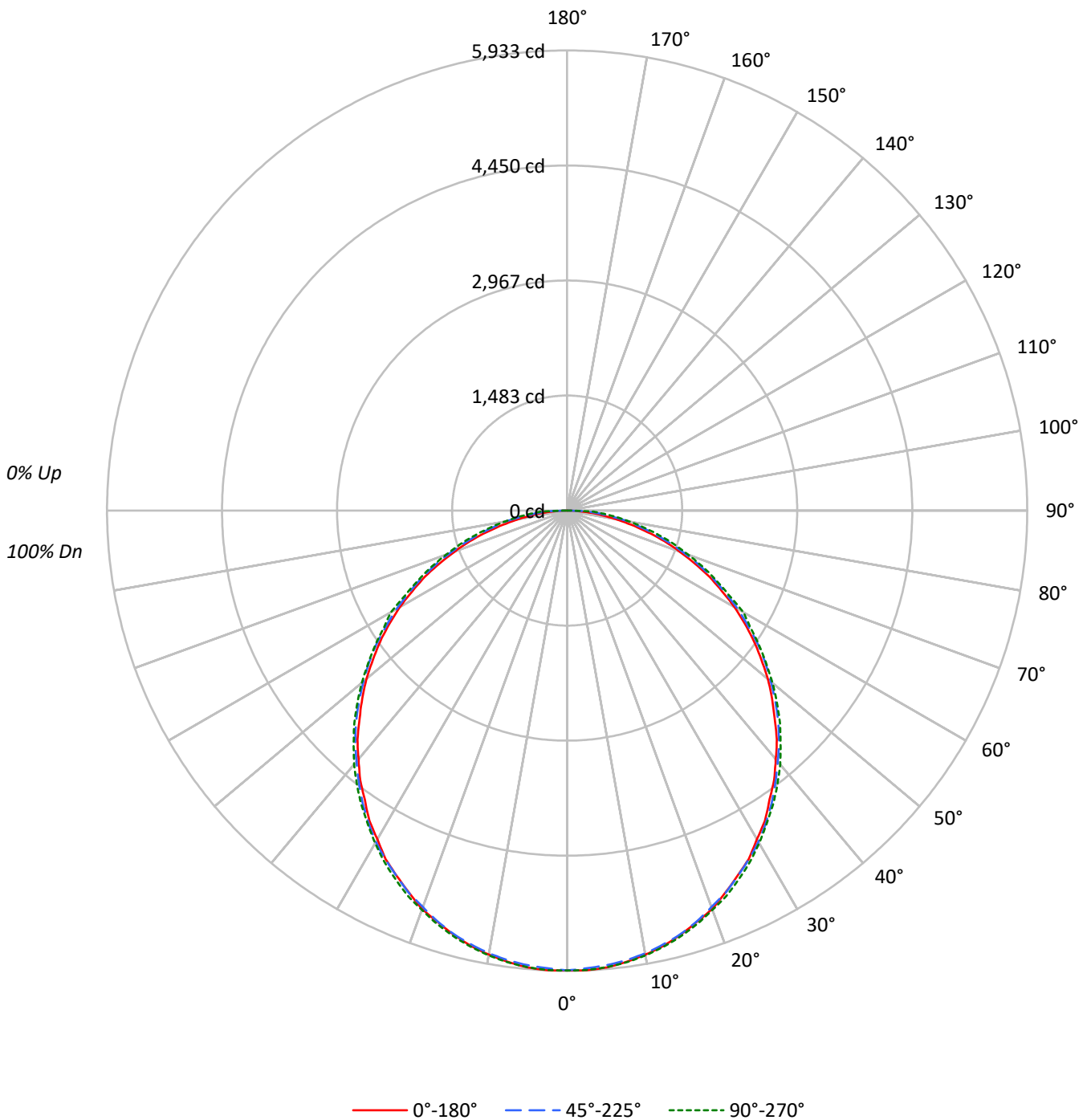
Lumens per Lamp: N/A
Luminaire Lumens: 16790.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8704	8704	8704
5°	8701	8605	8623
10°	8647	8509	8516
15°	8571	8397	8387
20°	8502	8240	8232
25°	8368	8102	8079
30°	8233	7964	7898
35°	8081	7771	7705
40°	7934	7549	7500
45°	7756	7353	7262
50°	7601	7098	6987
55°	7401	6841	6686
60°	7156	6496	6480
65°	6850	6099	5948
70°	6384	5584	5472
75°	5816	5014	4939
80°	5089	4492	4272
85°	4257	3384	3556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.4	3.3
10°-20°	1597.6	9.5
20°-30°	2403.9	14.3
30°-40°	2876.0	17.1
40°-50°	2963.7	17.7
50°-60°	2672.1	15.9
60°-70°	2052.3	12.2
70°-80°	1235.6	7.4
80°-90°	428.4	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°	4561.9	27.2
0°-40°	7437.9	44.3
0°-60°	13073.7	77.9
0°-90°	16790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5930	5930	5930	5930	5930	
5°	5912	5905	5884	5905	5908	561
15°	5659	5665	5653	5677	5680	1597
25°	5197	5200	5203	5233	5242	2396
35°	4549	4595	4598	4625	4628	2852
45°	3783	3816	3847	3877	3880	2924
55°	2944	2968	3001	3020	3020	2627
65°	2025	2031	2080	2104	2113	1996
75°	1073	1104	1168	1210	1226	1140
85°	289	334	398	453	474	325
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5929.7	5929.7	5929.7	5929.7	5929.7
2.5°	5932.8	5929.7	5905.4	5923.7	5929.7
5°	5911.5	5905.4	5884.1	5905.4	5908.5
7.5°	5868.9	5865.9	5847.6	5868.9	5875.0
10°	5814.2	5814.2	5795.9	5817.2	5823.3
12.5°	5747.3	5744.2	5729.0	5753.4	5759.5
15°	5659.1	5665.2	5653.0	5677.3	5680.4
17.5°	5561.8	5564.8	5555.7	5577.0	5586.1
20°	5467.5	5452.3	5440.2	5476.6	5479.7
22.5°	5330.7	5336.8	5333.7	5367.2	5373.3
25°	5196.9	5199.9	5203.0	5233.4	5242.5
27.5°	5066.1	5063.1	5072.2	5096.5	5105.7
30°	4892.8	4917.1	4932.3	4950.6	4953.6
32.5°	4743.8	4752.9	4771.2	4783.3	4786.4
35°	4549.2	4594.8	4597.8	4625.2	4628.2
37.5°	4381.9	4397.1	4412.3	4445.8	4451.9
40°	4184.3	4205.6	4223.8	4254.2	4272.5
42.5°	4001.8	4026.1	4044.4	4071.8	4074.8
45°	3782.9	3816.3	3846.7	3877.1	3880.2
47.5°	3582.2	3615.6	3639.9	3664.3	3667.3
50°	3378.4	3405.8	3427.1	3457.5	3457.5
52.5°	3153.4	3186.9	3220.3	3232.5	3232.5
55°	2943.6	2967.9	3001.4	3019.6	3019.6
57.5°	2715.5	2727.7	2764.2	2797.6	2797.6
60°	2490.5	2505.7	2542.2	2566.5	2624.3
62.5°	2250.3	2274.6	2298.9	2378.0	2344.5
65°	2025.2	2031.3	2080.0	2104.3	2113.4
67.5°	1775.9	1797.2	1845.8	1873.2	1891.4
70°	1538.7	1566.1	1608.6	1642.1	1657.3
72.5°	1313.7	1325.8	1380.6	1426.2	1447.5
75°	1073.4	1103.8	1167.7	1210.3	1225.5
77.5°	845.4	894.0	954.8	1103.8	1018.7
80°	644.7	681.2	790.6	796.7	818.0
82.5°	450.1	492.6	565.6	614.3	638.6
85°	288.9	334.5	398.4	453.1	474.4
87.5°	133.8	182.5	264.6	325.4	343.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)