

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-L835-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-L835-CD2-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

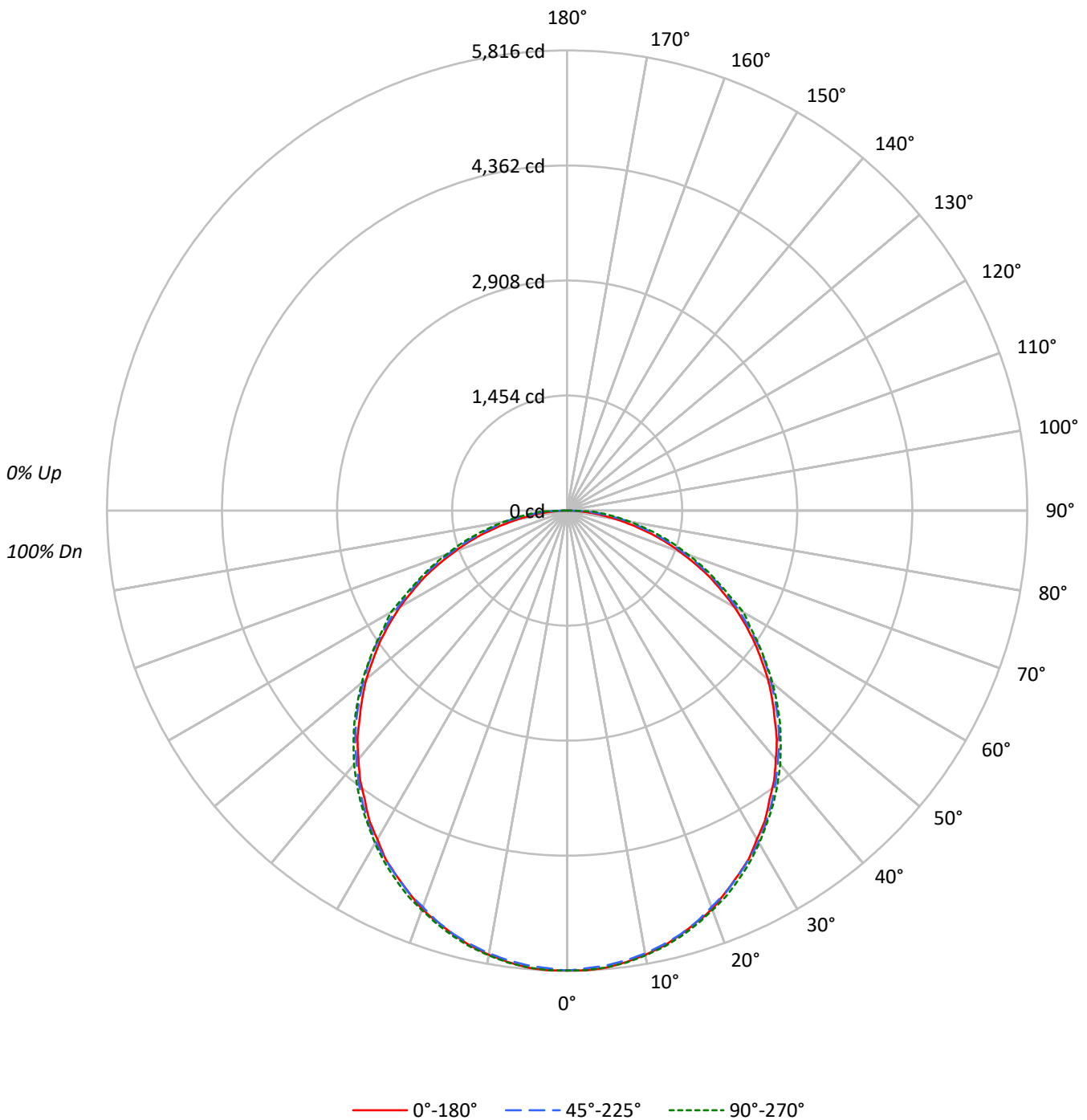
Lumens per Lamp: N/A
Luminaire Lumens: 16461.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	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	106	101	97	93	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	57	52		61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	49	45	43
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	49	41	36		47	40	35		46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		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°	8533	8533	8533
5°	8530	8436	8454
10°	8477	8343	8349
15°	8403	8232	8222
20°	8335	8078	8071
25°	8204	7943	7921
30°	8072	7808	7743
35°	7922	7619	7554
40°	7779	7401	7353
45°	7603	7209	7120
50°	7452	6959	6850
55°	7256	6706	6555
60°	7016	6368	6353
65°	6716	5980	5832
70°	6259	5475	5365
75°	5702	4915	4842
80°	4989	4404	4188
85°	4173	3318	3486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.4	3.3
10°-20°	1566.3	9.5
20°-30°	2356.8	14.3
30°-40°	2819.6	17.1
40°-50°	2905.7	17.7
50°-60°	2619.7	15.9
60°-70°	2012.1	12.2
70°-80°	1211.4	7.4
80°-90°	420.0	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°	4472.6	27.2
0°-40°	7292.2	44.3
0°-60°	12817.5	77.9
0°-90°	16461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5814	5814	5814	5814	5814	
5°	5796	5790	5769	5790	5793	550
15°	5548	5554	5542	5566	5569	1566
25°	5095	5098	5101	5131	5140	2349
35°	4460	4505	4508	4535	4538	2796
45°	3709	3742	3771	3801	3804	2867
55°	2886	2910	2942	2960	2960	2576
65°	1986	1992	2039	2063	2072	1956
75°	1052	1082	1145	1187	1202	1118
85°	283	328	391	444	465	319
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5813.5	5813.5	5813.5	5813.5	5813.5
2.5°	5816.5	5813.5	5789.7	5807.6	5813.5
5°	5795.7	5789.7	5768.8	5789.7	5792.7
7.5°	5753.9	5750.9	5733.1	5753.9	5759.9
10°	5700.3	5700.3	5682.4	5703.2	5709.2
12.5°	5634.7	5631.7	5616.8	5640.6	5646.6
15°	5548.2	5554.2	5542.2	5566.1	5569.1
17.5°	5452.8	5455.8	5446.8	5467.7	5476.7
20°	5360.4	5345.5	5333.6	5369.3	5372.3
22.5°	5226.2	5232.2	5229.2	5262.0	5268.0
25°	5095.1	5098.0	5101.0	5130.8	5139.8
27.5°	4966.9	4963.9	4972.8	4996.7	5005.6
30°	4796.9	4820.8	4835.7	4853.6	4856.5
32.5°	4650.8	4659.8	4677.7	4689.6	4692.6
35°	4460.0	4504.8	4507.7	4534.6	4537.5
37.5°	4296.1	4311.0	4325.9	4358.7	4364.6
40°	4102.3	4123.1	4141.0	4170.8	4188.7
42.5°	3923.4	3947.2	3965.1	3992.0	3995.0
45°	3708.7	3741.5	3771.4	3801.2	3804.1
47.5°	3512.0	3544.8	3568.6	3592.5	3595.5
50°	3312.2	3339.1	3359.9	3389.7	3389.7
52.5°	3091.6	3124.4	3157.2	3169.1	3169.1
55°	2885.9	2909.8	2942.5	2960.4	2960.4
57.5°	2662.3	2674.2	2710.0	2742.8	2742.8
60°	2441.7	2456.6	2492.4	2516.2	2572.9
62.5°	2206.2	2230.0	2253.9	2331.4	2298.6
65°	1985.5	1991.5	2039.2	2063.1	2072.0
67.5°	1741.1	1762.0	1809.7	1836.5	1854.4
70°	1508.5	1535.4	1577.1	1609.9	1624.8
72.5°	1287.9	1299.8	1353.5	1398.2	1419.1
75°	1052.4	1082.2	1144.8	1186.6	1201.5
77.5°	828.8	876.5	936.1	1082.2	998.7
80°	632.0	667.8	775.1	781.1	802.0
82.5°	441.2	483.0	554.5	602.2	626.1
85°	283.2	327.9	390.6	444.2	465.1
87.5°	131.2	178.9	259.4	319.0	336.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)