

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUION

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

Summary

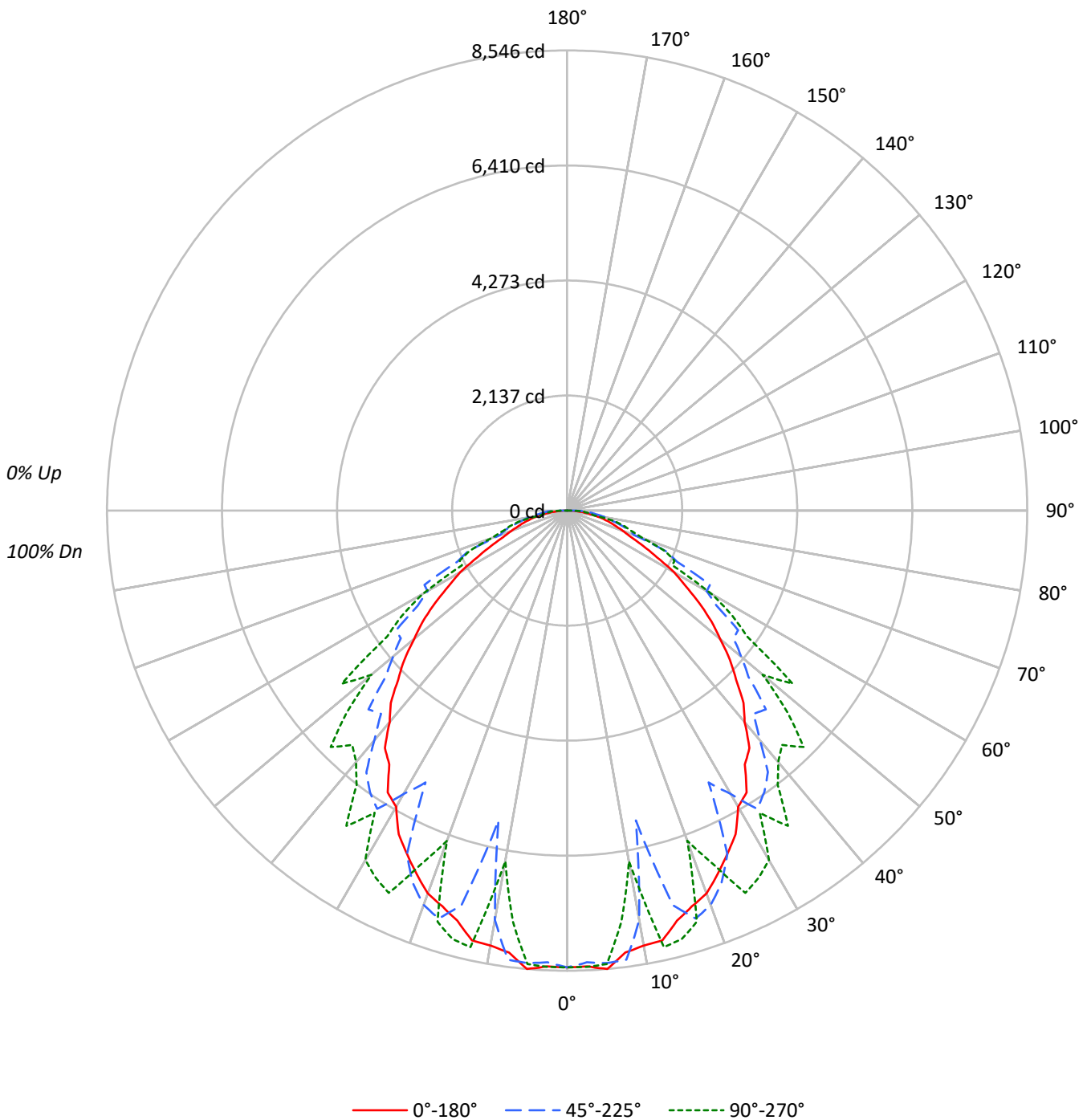
Lumens per Lamp: N/A
Luminaire Lumens: 20613.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
Input Voltage (V):
Input Current (Ain): 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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12452	12452	12452
5°	12578	12334	12338
10°	12196	11335	9669
15°	11942	11267	12161
20°	11764	11803	9800
25°	11329	10961	12076
30°	10689	9811	11948
35°	10226	10786	11899
40°	9724	9953	10700
45°	9098	9979	11624
50°	8349	8742	9579
55°	7518	8832	9031
60°	6588	7640	7635
65°	5285	6598	6194
70°	4545	4591	4920
75°	4314	4406	4375
80°	3973	4150	2594
85°	3684	3744	2465



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.7	3.8
10°-20°	2170.7	10.5
20°-30°	3138.2	15.2
30°-40°	3930.3	19.1
40°-50°	3825.9	18.6
50°-60°	3274.9	15.9
60°-70°	2031.6	9.9
70°-80°	1057.2	5.1
80°-90°	410.6	2.0
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°	6082.6	29.5
0°-40°	10012.9	48.6
0°-60°	17113.6	83.0
0°-90°	20613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8484	8484	8484	8484	8484	
5°	8546	8520	8434	8401	8454	798
15°	7885	7914	7586	8280	8237	2232
25°	7036	5832	7040	7237	7836	3233
35°	5757	6000	6382	6329	7148	3638
45°	4438	3984	5220	5339	6211	3432
55°	2990	3273	3875	4625	4079	2674
65°	1562	1753	2250	1905	2201	1586
75°	796	924	1026	1102	1086	843
85°	250	332	441	507	329	268
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8483.6	8483.6	8483.6	8483.6	8483.6
2.5°	8473.7	8437.6	8398.1	8467.2	8480.3
5°	8546.1	8519.8	8434.3	8401.4	8454.0
7.5°	8279.7	8335.6	8414.5	7986.9	7710.6
10°	8200.7	8171.1	7720.4	5944.1	6611.9
12.5°	8174.4	8138.2	5894.8	8263.2	8302.7
15°	7884.9	7914.5	7585.6	8279.7	8236.9
17.5°	7707.3	7299.4	7944.1	8082.3	8006.6
20°	7565.8	6361.9	7792.8	7424.4	6523.1
22.5°	7306.0	5424.4	7490.2	5957.3	7115.2
25°	7036.2	5832.3	7039.5	7236.9	7835.6
27.5°	6776.4	6608.6	5694.1	7552.7	7694.1
30°	6352.0	6552.7	6075.7	7394.8	7493.5
32.5°	6204.0	6256.6	6569.1	6983.6	6654.7
35°	5756.6	6000.0	6381.6	6329.0	7148.1
37.5°	5559.2	5628.3	6125.0	6664.5	6421.1
40°	5128.3	5233.6	5569.1	5888.2	6095.4
42.5°	4848.7	4496.7	5118.5	5707.3	5904.6
45°	4437.5	3983.6	5220.4	5338.9	6210.6
47.5°	4102.0	3957.3	4569.1	5556.0	5556.0
50°	3710.6	3901.3	4220.4	4963.9	4740.2
52.5°	3375.0	3634.9	3894.8	4315.8	5279.6
55°	2990.2	3273.0	3875.0	4625.0	4079.0
57.5°	2611.9	2852.0	3289.5	3542.8	3638.2
60°	2292.8	2526.3	2990.2	3184.2	3092.1
62.5°	1881.6	2177.6	2990.2	2509.9	2200.7
65°	1562.5	1753.3	2250.0	1904.6	2200.7
67.5°	1282.9	1480.3	2000.0	1838.8	1960.5
70°	1095.4	1236.9	1322.4	1644.7	1490.1
72.5°	937.5	1039.5	1210.5	1243.4	1236.9
75°	796.1	924.3	1026.3	1102.0	1085.5
77.5°	661.2	842.1	845.4	1013.2	881.6
80°	503.3	575.7	730.3	661.2	496.7
82.5°	368.4	450.7	555.9	572.4	437.5
85°	250.0	332.2	440.8	506.6	328.9
87.5°	115.1	227.0	358.6	454.0	299.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)