

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-LD5-14-N-TWB-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-14-N-TWB-UNV-L835-CD2-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

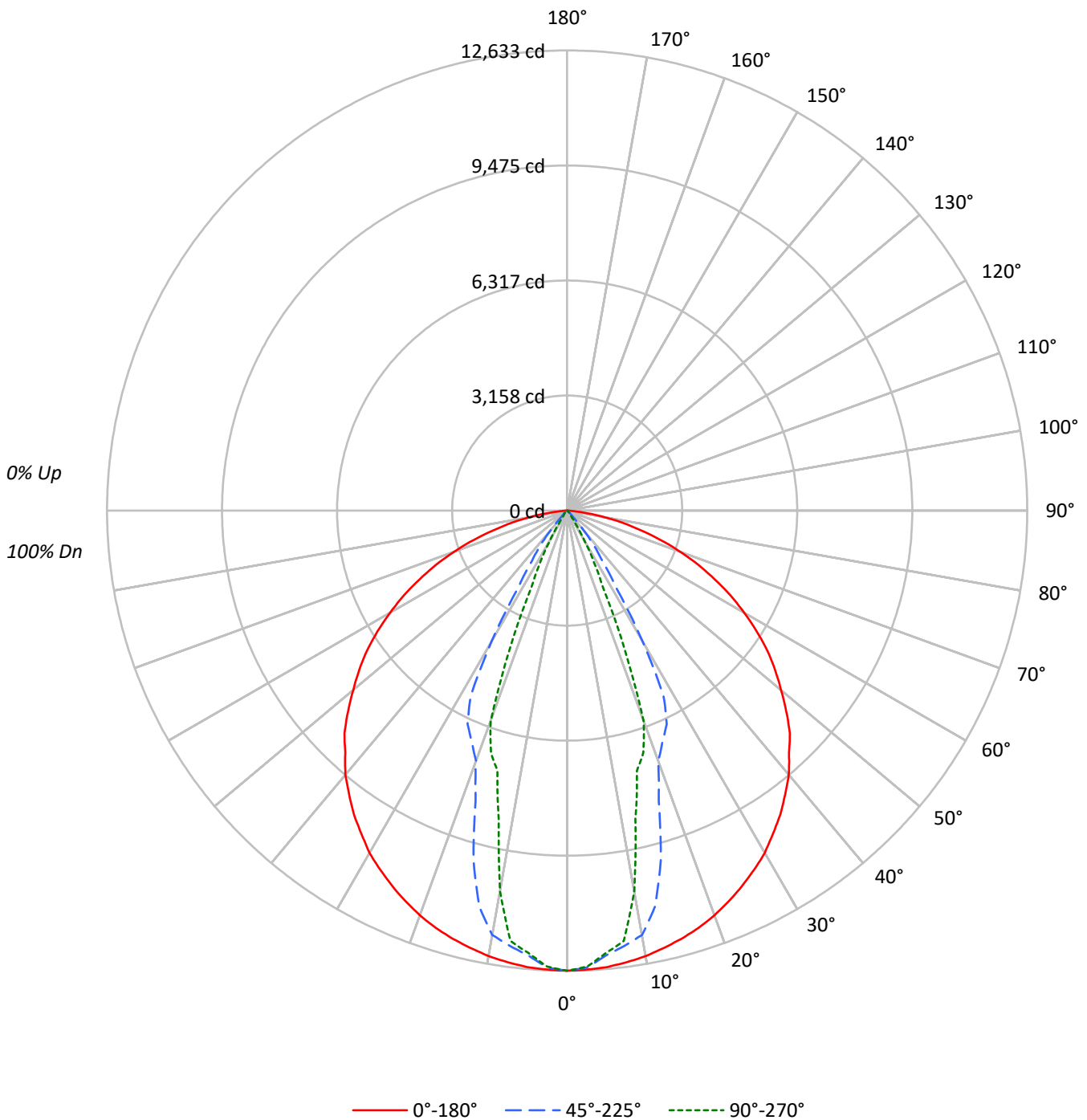
Lumens per Lamp: N/A
Luminaire Lumens: 12706.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18543	18543	18543
5°	18514	17922	17793
10°	18468	17368	15505
15°	18422	14749	10918
20°	18385	11080	9231
25°	18302	10075	3584
30°	18261	6673	1528
35°	18114	2842	338
40°	17957	1254	241
45°	17728	300	112
50°	17251	185	60
55°	16878	118	62
60°	16130	107	64
65°	15135	111	67
70°	13699	117	72
75°	11374	137	80
80°	8237	158	73
85°	2782	169	89



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1160.4	9.1
10°-20°	2769.7	21.8
20°-30°	3028.4	23.8
30°-40°	2191.6	17.2
40°-50°	1635.6	12.9
50°-60°	955.0	7.5
60°-70°	593.7	4.7
70°-80°	309.7	2.4
80°-90°	61.9	0.5
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°	6958.5	54.8
0°-40°	9150.1	72.0
0°-60°	11740.7	92.4
0°-90°	12706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12633	12633	12633	12633	12633	
5°	12579	12534	12255	12217	12192	###
15°	12164	11736	9929	7765	7395	3435
25°	11367	9649	6470	3373	2326	5243
35°	10198	6220	1682	364	203	6376
45°	8647	4065	157	107	60	6640
55°	6713	787	52	60	28	5977
65°	4475	66	38	36	24	4424
75°	2099	40	32	26	20	2250
85°	189	26	20	18	12	358
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12632.9	12632.9	12632.9	12632.9	12632.9
2.5°	12613.0	12628.9	12553.3	12553.3	12531.5
5°	12579.2	12533.5	12255.2	12217.4	12191.5
7.5°	12505.6	12326.7	12054.4	12004.7	11919.2
10°	12418.2	12104.1	11829.8	11122.1	10603.2
12.5°	12294.9	11919.2	11142.0	9388.7	8669.1
15°	12163.7	11736.3	9929.4	7764.6	7394.8
17.5°	12008.7	11493.8	8353.0	7120.5	6961.5
20°	11823.8	11100.2	7315.3	6677.2	6144.5
22.5°	11607.1	10489.9	6846.2	5550.1	4112.9
25°	11366.6	9649.1	6470.5	3373.4	2325.8
27.5°	11114.1	8655.1	5727.0	2049.5	1588.3
30°	10851.7	7633.4	4132.8	1469.0	958.1
32.5°	10515.8	6798.5	2506.7	827.0	427.4
35°	10197.7	6220.0	1681.7	363.8	202.8
37.5°	9830.0	5820.5	1228.5	192.8	143.1
40°	9470.2	5430.8	701.7	145.1	137.2
42.5°	9016.9	4945.8	296.2	137.2	97.4
45°	8647.2	4065.2	157.0	107.3	59.6
47.5°	8158.2	2783.0	105.4	83.5	37.8
50°	7667.2	1719.5	89.5	65.6	29.8
52.5°	7200.0	1139.0	65.6	61.6	27.8
55°	6713.0	787.2	51.7	59.6	27.8
57.5°	6172.3	387.6	43.7	57.6	25.8
60°	5613.7	151.1	41.7	55.7	25.8
62.5°	5061.1	83.5	39.8	45.7	23.9
65°	4474.7	65.6	37.8	35.8	23.9
67.5°	3894.2	53.7	35.8	33.8	23.9
70°	3301.8	47.7	33.8	29.8	21.9
72.5°	2697.5	43.7	31.8	29.8	19.9
75°	2099.2	39.8	31.8	25.8	19.9
77.5°	1570.4	37.8	29.8	25.8	15.9
80°	1043.6	33.8	27.8	21.9	13.9
82.5°	576.5	31.8	23.9	19.9	13.9
85°	188.8	25.8	19.9	17.9	11.9
87.5°	29.8	17.9	15.9	15.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)