

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-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 (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-L850-CD2-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

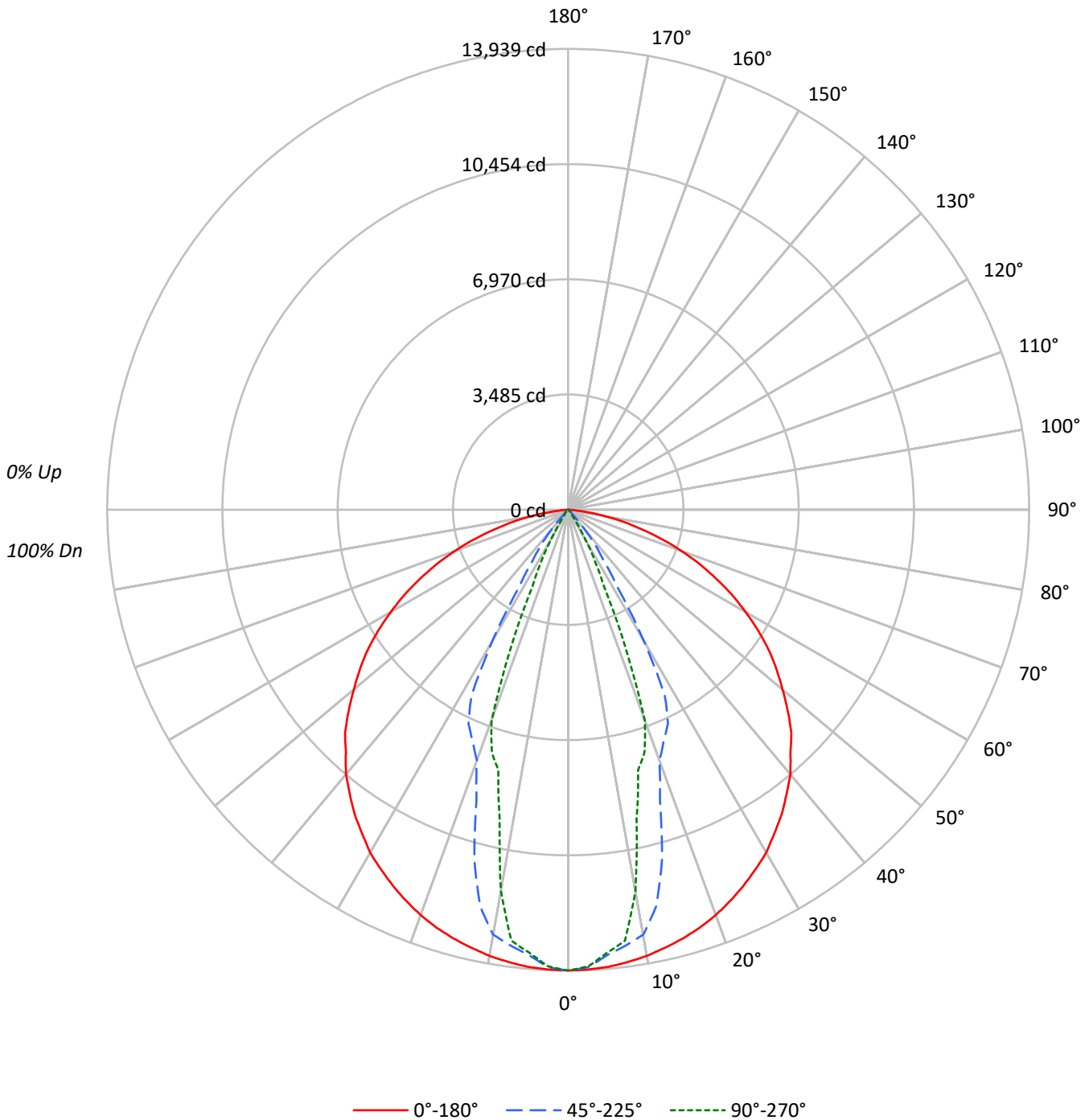
Lumens per Lamp: N/A
Luminaire Lumens: 14020.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20460	20460	20460
5°	20429	19775	19633
10°	20378	19164	17109
15°	20327	16274	12047
20°	20287	12226	10186
25°	20195	11117	3955
30°	20149	7363	1686
35°	19988	3136	372
40°	19814	1384	266
45°	19561	331	123
50°	19035	204	66
55°	18623	130	68
60°	17799	118	70
65°	16701	122	74
70°	15116	129	80
75°	12551	151	88
80°	9090	174	80
85°	3071	186	99



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1280.5	9.1
10°-20°	3056.1	21.8
20°-30°	3341.5	23.8
30°-40°	2418.3	17.2
40°-50°	1804.7	12.9
50°-60°	1053.8	7.5
60°-70°	655.1	4.7
70°-80°	341.7	2.4
80°-90°	68.3	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°	7678.1	54.8
0°-40°	10096.4	72.0
0°-60°	12954.9	92.4
0°-90°	14020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13939	13939	13939	13939	13939	
5°	13880	13830	13522	13481	13452	###
15°	13422	12950	10956	8568	8160	3790
25°	12542	10647	7140	3722	2566	5785
35°	11252	6863	1856	401	224	7035
45°	9541	4486	173	118	66	7326
55°	7407	869	57	66	31	6595
65°	4937	72	42	40	26	4882
75°	2316	44	35	28	22	2483
85°	208	28	22	20	13	395
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13939.3	13939.3	13939.3	13939.3	13939.3
2.5°	13917.4	13934.9	13851.6	13851.6	13827.4
5°	13880.1	13829.6	13522.5	13480.9	13452.3
7.5°	13798.9	13601.5	13301.0	13246.2	13151.8
10°	13702.4	13355.8	13053.1	12272.3	11699.8
12.5°	13566.4	13151.8	12294.2	10359.6	9565.6
15°	13421.6	12950.1	10956.2	8567.6	8159.6
17.5°	13250.6	12682.5	9216.8	7856.9	7681.4
20°	13046.6	12248.2	8071.8	7367.8	6779.9
22.5°	12807.5	11574.8	7554.2	6124.1	4538.2
25°	12542.1	10646.9	7139.6	3722.3	2566.3
27.5°	12263.5	9550.2	6319.3	2261.4	1752.6
30°	11974.0	8422.8	4560.2	1620.9	1057.2
32.5°	11603.3	7501.6	2765.9	912.5	471.6
35°	11252.3	6863.3	1855.6	401.4	223.7
37.5°	10846.5	6422.4	1355.5	212.8	157.9
40°	10449.5	5992.5	774.3	160.1	151.3
42.5°	9949.4	5457.3	326.8	151.3	107.5
45°	9541.4	4485.6	173.3	118.4	65.8
47.5°	9001.9	3070.8	116.3	92.1	41.7
50°	8460.1	1897.3	98.7	72.4	32.9
52.5°	7944.6	1256.8	72.4	68.0	30.7
55°	7407.2	868.6	57.0	65.8	30.7
57.5°	6810.6	427.7	48.3	63.6	28.5
60°	6194.3	166.7	46.1	61.4	28.5
62.5°	5584.5	92.1	43.9	50.4	26.3
65°	4937.4	72.4	41.7	39.5	26.3
67.5°	4296.9	59.2	39.5	37.3	26.3
70°	3643.3	52.6	37.3	32.9	24.1
72.5°	2976.5	48.3	35.1	32.9	21.9
75°	2316.3	43.9	35.1	28.5	21.9
77.5°	1732.8	41.7	32.9	28.5	17.5
80°	1151.6	37.3	30.7	24.1	15.4
82.5°	636.1	35.1	26.3	21.9	15.4
85°	208.4	28.5	21.9	19.7	13.2
87.5°	32.9	19.7	17.5	17.5	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)