

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: **4ILED-LD5-16-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: 4ILED-LD5-16-N-TWB-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

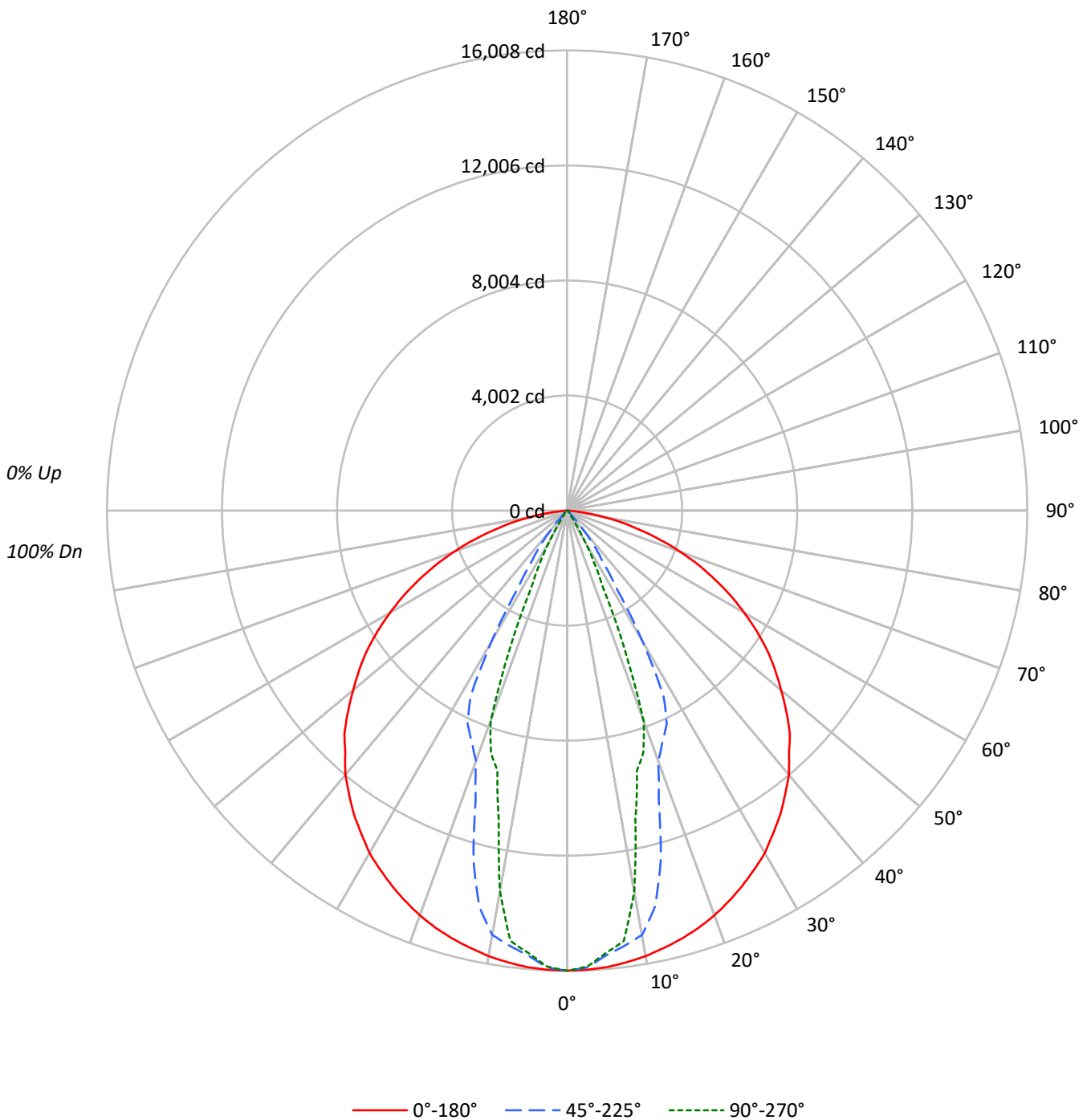
Lumens per Lamp: N/A
Luminaire Lumens: 16101.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
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	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°	46994	46994	46994
5°	46871	45387	45095
10°	46702	43951	39297
15°	46533	37293	27670
20°	46385	27994	23396
25°	46117	25434	9084
30°	45950	16831	3872
35°	45514	7162	855
40°	45043	3156	610
45°	44382	755	283
50°	43088	465	153
55°	42037	295	156
60°	40033	267	161
65°	37383	277	170
70°	33605	291	183
75°	27597	338	203
80°	19581	388	184
85°	6269	407	226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1470.5	9.1
10°-20°	3509.7	21.8
20°-30°	3837.5	23.8
30°-40°	2777.2	17.2
40°-50°	2072.6	12.9
50°-60°	1210.2	7.5
60°-70°	752.4	4.7
70°-80°	392.4	2.4
80°-90°	78.4	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°	8817.8	54.8
0°-40°	11595.0	72.0
0°-60°	14877.8	92.4
0°-90°	16101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16008	16008	16008	16008	16008	
5°	15940	15882	15530	15482	15449	###
15°	15414	14872	12582	9839	9371	4353
25°	14404	12227	8199	4275	2947	6644
35°	12922	7882	2131	461	257	8079
45°	10958	5151	199	136	76	8414
55°	8507	998	66	76	35	7574
65°	5670	83	48	45	30	5606
75°	2660	50	40	33	25	2851
85°	239	33	25	23	15	453
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16008.3	16008.3	16008.3	16008.3	16008.3
2.5°	15983.1	16003.3	15907.6	15907.6	15879.8
5°	15940.3	15882.4	15529.7	15481.8	15449.1
7.5°	15847.1	15620.4	15275.3	15212.3	15104.0
10°	15736.3	15338.3	14990.6	14093.9	13436.4
12.5°	15580.1	15104.0	14119.1	11897.3	10985.4
15°	15413.8	14872.2	12582.5	9839.3	9370.7
17.5°	15217.3	14564.9	10584.9	9023.1	8821.6
20°	14983.1	14066.2	9270.0	8461.4	7786.3
22.5°	14708.5	13292.8	8675.5	7033.1	5211.8
25°	14403.7	12227.3	8199.4	4274.8	2947.2
27.5°	14083.8	10967.8	7257.3	2597.1	2012.7
30°	13751.3	9673.0	5237.0	1861.5	1214.2
32.5°	13325.6	8615.0	3176.5	1047.9	541.6
35°	12922.5	7882.0	2131.1	461.0	256.9
37.5°	12456.5	7375.7	1556.7	244.3	181.4
40°	12000.6	6881.9	889.2	183.9	173.8
42.5°	11426.2	6267.3	375.3	173.8	123.4
45°	10957.7	5151.4	199.0	136.0	75.6
47.5°	10338.0	3526.6	133.5	105.8	47.9
50°	9715.8	2178.9	113.4	83.1	37.8
52.5°	9123.9	1443.4	83.1	78.1	35.3
55°	8506.7	997.5	65.5	75.6	35.3
57.5°	7821.5	491.2	55.4	73.1	32.7
60°	7113.7	191.4	52.9	70.5	32.7
62.5°	6413.4	105.8	50.4	57.9	30.2
65°	5670.3	83.1	47.9	45.3	30.2
67.5°	4934.7	68.0	45.3	42.8	30.2
70°	4184.1	60.5	42.8	37.8	27.7
72.5°	3418.3	55.4	40.3	37.8	25.2
75°	2660.1	50.4	40.3	32.7	25.2
77.5°	1990.0	47.9	37.8	32.7	20.2
80°	1322.5	42.8	35.3	27.7	17.6
82.5°	730.5	40.3	30.2	25.2	17.6
85°	239.3	32.7	25.2	22.7	15.1
87.5°	37.8	22.7	20.2	20.2	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)