

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-LD5-14-W-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 (P34175)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-W-TWB-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

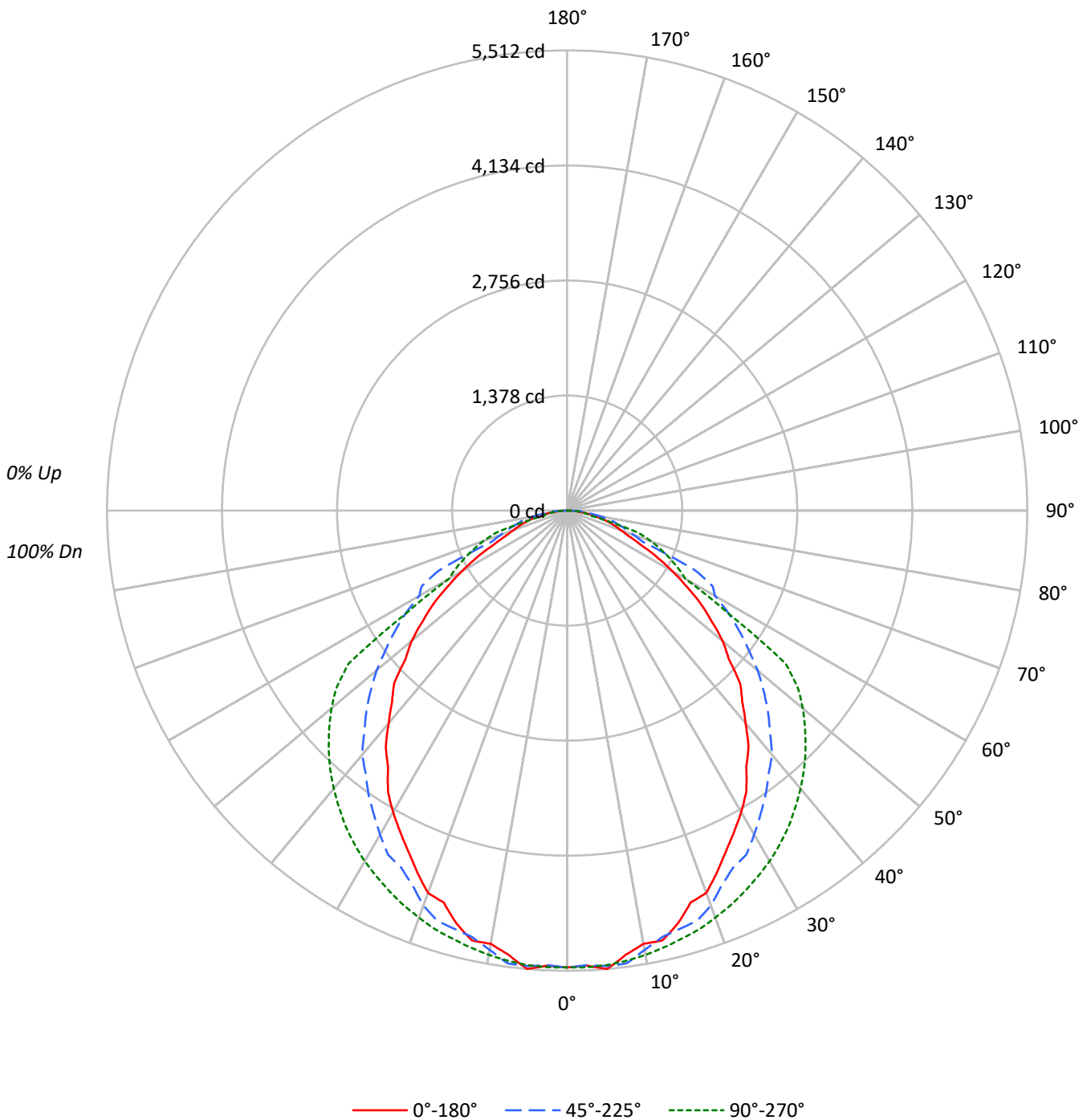
Lumens per Lamp: N/A
Luminaire Lumens: 13800.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					72				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55					53				
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49					47				
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43					41				
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38					36				
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34					32				
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31					29				
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16064	16064	16064
5°	16207	16005	15949
10°	15641	15665	15803
15°	15458	15379	15679
20°	15090	15204	15591
25°	14413	14616	15512
30°	13935	14400	15464
35°	13177	13938	15389
40°	12487	13554	15270
45°	11871	12899	15119
50°	10790	12223	14893
55°	9687	11362	14141
60°	8206	10305	8085
65°	6441	9776	7646
70°	5471	5744	7029
75°	5165	5201	4433
80°	4627	4557	2611
85°	3492	3367	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.4	3.8
10°-20°	1471.8	10.7
20°-30°	2196.9	15.9
30°-40°	2615.0	18.9
40°-50°	2644.0	19.2
50°-60°	2227.7	16.1
60°-70°	1287.2	9.3
70°-80°	635.4	4.6
80°-90°	203.8	1.5
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°	4187.1	30.3
0°-40°	6802.0	49.3
0°-60°	11673.6	84.6
0°-90°	13800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5472	5472	5472	5472	5472	
5°	5512	5524	5476	5449	5464	515
15°	5120	5199	5189	5328	5310	1437
25°	4502	4585	4712	4941	5033	2079
35°	3741	3893	4147	4499	4622	2353
45°	2931	3020	3402	3810	4039	2224
55°	1960	2114	2520	3006	3193	1740
65°	977	1192	1694	1273	1358	1006
75°	498	612	621	683	550	523
85°	133	165	208	248	148	153
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5472.2	5472.2	5472.2	5472.2	5472.2
2.5°	5455.6	5461.8	5449.3	5480.5	5474.3
5°	5511.8	5524.3	5476.4	5449.3	5463.9
7.5°	5368.1	5395.1	5470.1	5434.7	5438.9
10°	5270.2	5274.3	5343.1	5453.5	5403.5
12.5°	5274.3	5266.0	5234.7	5424.3	5359.7
15°	5120.2	5199.3	5188.9	5328.5	5309.7
17.5°	4922.3	4999.4	5155.6	5232.7	5259.7
20°	4874.4	4847.3	5034.8	5109.8	5188.9
22.5°	4689.0	4797.3	4849.4	5016.0	5118.1
25°	4501.5	4584.8	4711.9	4941.0	5032.7
27.5°	4332.8	4422.3	4647.3	4870.2	4943.1
30°	4170.3	4253.6	4480.7	4780.6	4849.4
32.5°	3993.2	4097.4	4311.9	4672.3	4741.1
35°	3741.2	3893.3	4147.4	4499.4	4622.3
37.5°	3568.3	3668.3	3966.2	4316.1	4486.9
40°	3326.7	3487.1	3818.3	4174.5	4349.4
42.5°	3103.8	3262.1	3595.4	3997.4	4201.5
45°	2930.9	3020.4	3401.6	3809.9	4039.1
47.5°	2622.6	2849.6	3191.3	3610.0	3866.2
50°	2433.0	2589.3	2978.8	3418.3	3684.9
52.5°	2187.2	2362.2	2739.2	3205.8	3482.9
55°	1960.2	2114.3	2520.5	3005.9	3193.3
57.5°	1701.9	1899.8	2293.5	2778.8	2278.9
60°	1458.1	1656.0	2043.5	1876.8	1637.3
62.5°	1224.8	1399.8	1966.4	1412.3	1501.9
65°	977.0	1191.5	1693.5	1272.8	1358.2
67.5°	802.0	952.0	977.0	1139.4	1214.4
70°	681.2	754.1	843.6	1010.3	1064.4
72.5°	591.6	622.8	733.2	897.8	906.1
75°	497.9	612.4	620.8	683.2	549.9
77.5°	397.9	493.7	537.4	397.9	281.2
80°	312.5	335.4	414.5	350.0	250.0
82.5°	216.6	247.9	287.5	302.0	206.2
85°	133.3	164.6	208.3	247.9	147.9
87.5°	56.2	89.6	143.7	191.6	81.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)