

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-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-LD5-16-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

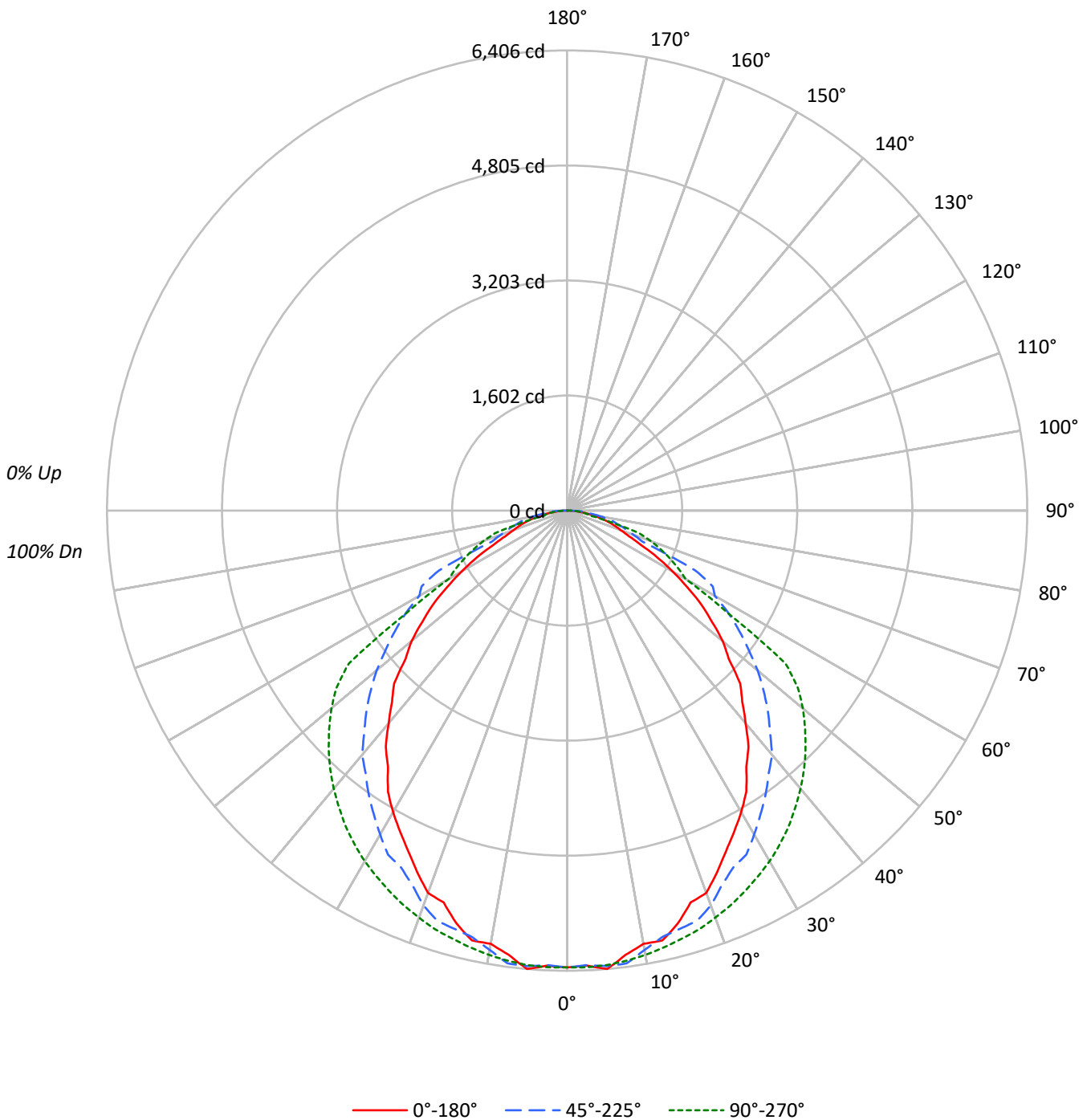
Lumens per Lamp: N/A
Luminaire Lumens: 16038.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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	46
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°	18670	18670	18670
5°	18835	18601	18535
10°	18177	18206	18366
15°	17964	17873	18221
20°	17538	17670	18120
25°	16750	16986	18028
30°	16195	16735	17972
35°	15314	16198	17885
40°	14512	15752	17746
45°	13796	14991	17571
50°	12540	14205	17308
55°	11258	13204	16434
60°	9536	11977	9396
65°	7485	11361	8885
70°	6358	6677	8170
75°	6003	6044	5152
80°	5376	5297	3034
85°	4058	3913	2577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.5	3.8
10°-20°	1710.5	10.7
20°-30°	2553.1	15.9
30°-40°	3039.0	18.9
40°-50°	3072.7	19.2
50°-60°	2588.9	16.1
60°-70°	1496.0	9.3
70°-80°	738.4	4.6
80°-90°	236.8	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°	4866.1	30.3
0°-40°	7905.1	49.3
0°-60°	13566.8	84.6
0°-90°	16038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6360	6360	6360	6360	6360	
5°	6406	6420	6364	6333	6350	599
15°	5950	6042	6030	6193	6171	1671
25°	5232	5328	5476	5742	5849	2416
35°	4348	4525	4820	5229	5372	2735
45°	3406	3510	3953	4428	4694	2585
55°	2278	2457	2929	3493	3711	2022
65°	1135	1385	1968	1479	1578	1169
75°	579	712	721	794	639	608
85°	155	191	242	288	172	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6359.7	6359.7	6359.7	6359.7	6359.7
2.5°	6340.3	6347.6	6333.0	6369.3	6362.1
5°	6405.7	6420.2	6364.5	6333.0	6350.0
7.5°	6238.6	6270.1	6357.2	6316.1	6320.9
10°	6124.8	6129.7	6209.6	6337.9	6279.8
12.5°	6129.7	6120.0	6083.7	6304.0	6228.9
15°	5950.5	6042.5	6030.4	6192.6	6170.8
17.5°	5720.6	5810.1	5991.7	6081.3	6112.7
20°	5664.9	5633.4	5851.3	5938.4	6030.4
22.5°	5449.4	5575.3	5635.8	5829.5	5948.1
25°	5231.5	5328.4	5476.0	5742.3	5848.9
27.5°	5035.4	5139.5	5401.0	5660.0	5744.8
30°	4846.6	4943.4	5207.3	5555.9	5635.8
32.5°	4640.8	4761.9	5011.2	5430.0	5509.9
35°	4347.9	4524.6	4820.0	5229.1	5371.9
37.5°	4147.0	4263.2	4609.4	5016.1	5214.6
40°	3866.2	4052.6	4437.5	4851.5	5054.8
42.5°	3607.1	3791.1	4178.4	4645.7	4882.9
45°	3406.2	3510.3	3953.3	4427.8	4694.1
47.5°	3047.9	3311.8	3708.8	4195.4	4493.2
50°	2827.6	3009.2	3461.9	3972.7	4282.5
52.5°	2541.9	2745.3	3183.5	3725.7	4047.7
55°	2278.1	2457.2	2929.3	3493.3	3711.2
57.5°	1977.9	2207.8	2665.4	3229.5	2648.4
60°	1694.6	1924.6	2374.9	2181.2	1902.8
62.5°	1423.5	1626.8	2285.3	1641.4	1745.5
65°	1135.4	1384.7	1968.2	1479.2	1578.4
67.5°	932.0	1106.3	1135.4	1324.2	1411.4
70°	791.6	876.4	980.5	1174.1	1237.1
72.5°	687.5	723.8	852.2	1043.4	1053.1
75°	578.6	711.7	721.4	794.1	639.1
77.5°	462.4	573.7	624.6	462.4	326.8
80°	363.1	389.8	481.8	406.7	290.5
82.5°	251.8	288.1	334.1	351.0	239.7
85°	154.9	191.2	242.1	288.1	171.9
87.5°	65.4	104.1	167.0	222.7	94.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)