

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-LD5-10-W-TWBWG-UNV-L840-CD1-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 (P34176)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-TWBWG-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

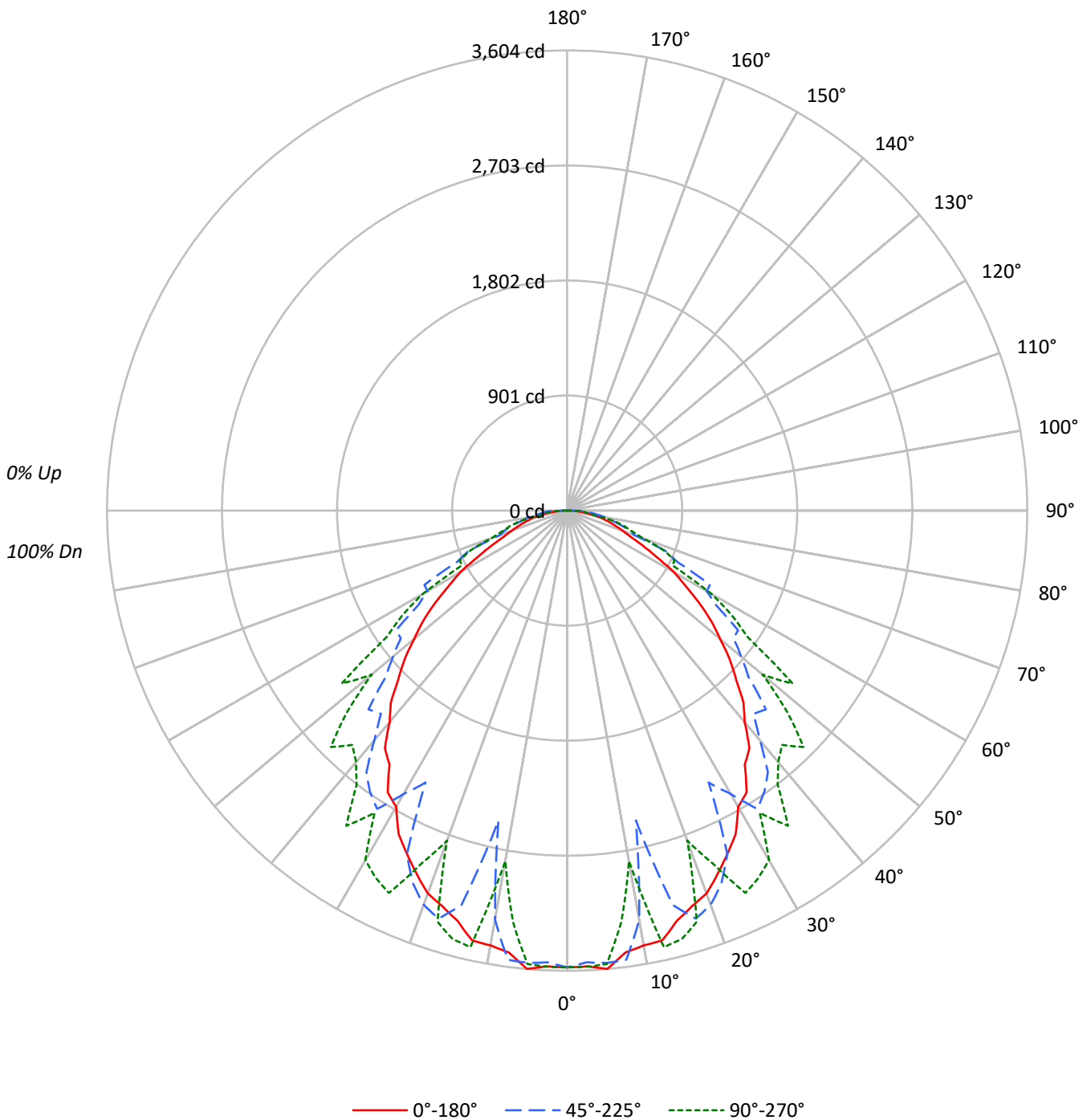
Lumens per Lamp: N/A
Luminaire Lumens: 8692.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	55		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38		49	43	38		48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5251	5251	5251
5°	5304	5201	5203
10°	5143	4780	4077
15°	5036	4751	5128
20°	4961	4977	4132
25°	4777	4622	5092
30°	4507	4137	5038
35°	4312	4548	5018
40°	4101	4197	4512
45°	3836	4208	4901
50°	3520	3686	4039
55°	3170	3724	3808
60°	2778	3222	3219
65°	2229	2782	2612
70°	1916	1936	2075
75°	1819	1858	1845
80°	1675	1750	1094
85°	1553	1579	1040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	3.8
10°-20°	915.3	10.5
20°-30°	1323.3	15.2
30°-40°	1657.3	19.1
40°-50°	1613.3	18.6
50°-60°	1380.9	15.9
60°-70°	856.7	9.9
70°-80°	445.8	5.1
80°-90°	173.1	2.0
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°	2564.9	29.5
0°-40°	4222.2	48.6
0°-60°	7216.4	83.0
0°-90°	8692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3577	3577	3577	3577	3577	
5°	3604	3593	3556	3543	3565	336
15°	3325	3337	3199	3491	3473	941
25°	2967	2459	2968	3052	3304	1363
35°	2427	2530	2691	2669	3014	1534
45°	1871	1680	2201	2251	2619	1447
55°	1261	1380	1634	1950	1720	1128
65°	659	739	949	803	928	669
75°	336	390	433	465	458	355
85°	105	140	186	214	139	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3577.3	3577.3	3577.3	3577.3	3577.3
2.5°	3573.2	3557.9	3541.3	3570.4	3575.9
5°	3603.7	3592.6	3556.5	3542.7	3564.8
7.5°	3491.3	3514.9	3548.2	3367.9	3251.4
10°	3458.0	3445.6	3255.5	2506.5	2788.1
12.5°	3446.9	3431.7	2485.7	3484.4	3501.0
15°	3324.9	3337.4	3198.7	3491.3	3473.3
17.5°	3250.0	3078.0	3349.8	3408.1	3376.2
20°	3190.3	2682.7	3286.0	3130.7	2750.6
22.5°	3080.8	2287.3	3158.4	2512.0	3000.3
25°	2967.0	2459.3	2968.4	3051.6	3304.1
27.5°	2857.4	2786.7	2401.1	3184.8	3244.4
30°	2678.5	2763.1	2562.0	3118.2	3159.8
32.5°	2616.1	2638.3	2770.0	2944.8	2806.1
35°	2427.4	2530.1	2691.0	2668.8	3014.2
37.5°	2344.2	2373.3	2582.8	2810.3	2707.6
40°	2162.5	2206.9	2348.4	2482.9	2570.3
42.5°	2044.6	1896.2	2158.3	2406.6	2489.8
45°	1871.2	1679.8	2201.3	2251.3	2618.8
47.5°	1729.7	1668.7	1926.7	2342.8	2342.8
50°	1564.6	1645.1	1779.7	2093.1	1998.8
52.5°	1423.2	1532.7	1642.3	1819.9	2226.3
55°	1260.9	1380.2	1634.0	1950.3	1720.0
57.5°	1101.4	1202.6	1387.1	1493.9	1534.1
60°	966.8	1065.3	1260.9	1342.7	1303.9
62.5°	793.4	918.3	1260.9	1058.4	928.0
65°	658.9	739.3	948.8	803.1	928.0
67.5°	541.0	624.2	843.4	775.4	826.7
70°	461.9	521.5	557.6	693.6	628.4
72.5°	395.3	438.3	510.5	524.3	521.5
75°	335.7	389.8	432.8	464.7	457.7
77.5°	278.8	355.1	356.5	427.2	371.7
80°	212.2	242.7	307.9	278.8	209.5
82.5°	155.4	190.0	234.4	241.4	184.5
85°	105.4	140.1	185.9	213.6	138.7
87.5°	48.5	95.7	151.2	191.4	126.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)