

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-LD5-9-W-TWBWG-UNV-L850-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: 4ILED-LD5-9-W-TWBWG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

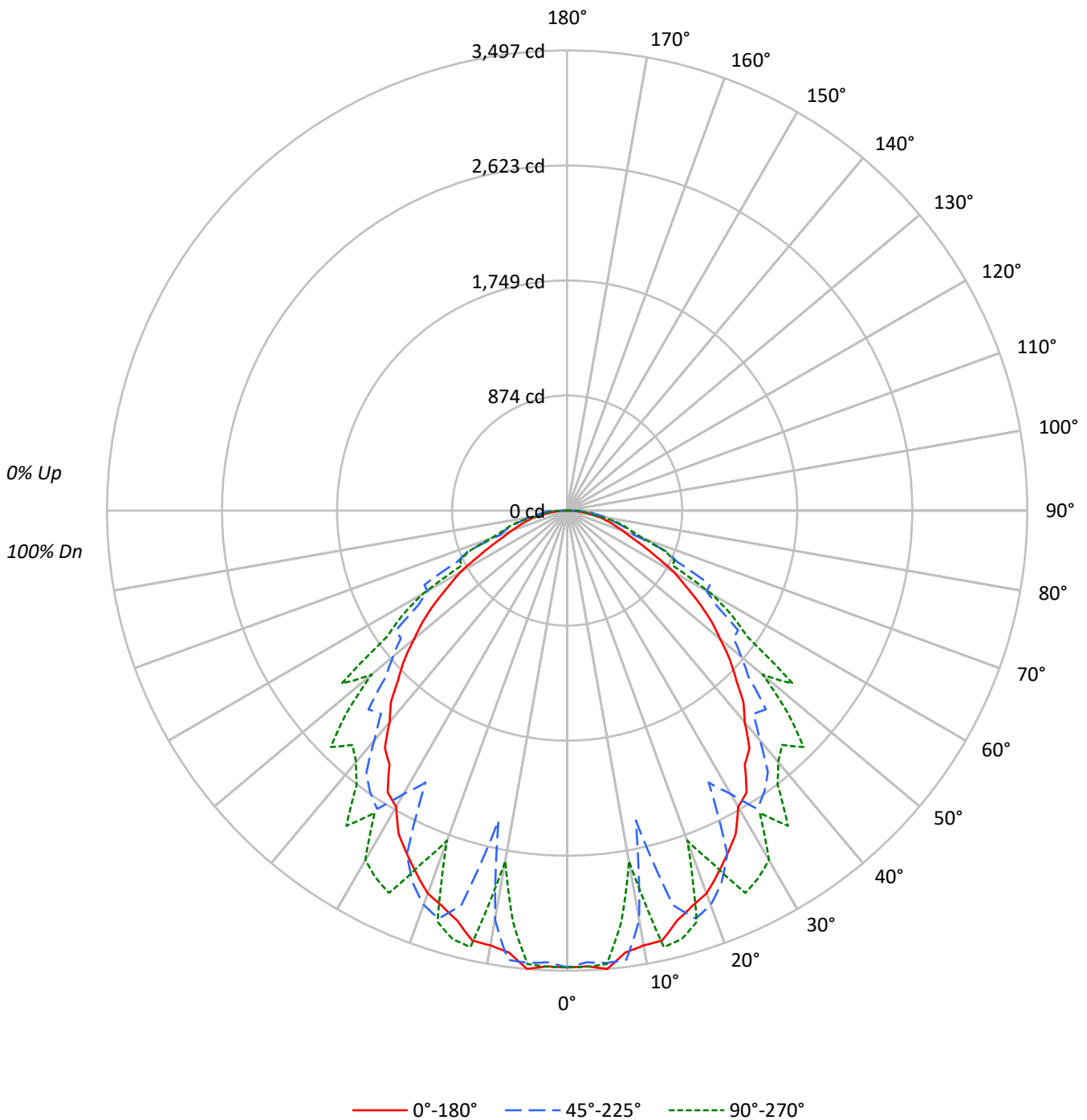
Lumens per Lamp: N/A
Luminaire Lumens: 8434.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
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	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°	10190	10190	10190
5°	10282	10086	10097
10°	9958	9262	7912
15°	9740	9199	9952
20°	9583	9629	8020
25°	9218	8935	9882
30°	8685	7989	9777
35°	8296	8775	9737
40°	7876	8089	8756
45°	7354	8100	9512
50°	6733	7086	7839
55°	6046	7147	7391
60°	5279	6170	6248
65°	4215	5314	5069
70°	3600	3685	4026
75°	3379	3518	3581
80°	3049	3285	2122
85°	2680	2916	2018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	3.8
10°-20°	888.2	10.5
20°-30°	1284.0	15.2
30°-40°	1608.1	19.1
40°-50°	1565.4	18.6
50°-60°	1340.0	15.9
60°-70°	831.2	9.9
70°-80°	432.5	5.1
80°-90°	168.0	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°	2488.7	29.5
0°-40°	4096.9	48.6
0°-60°	7002.2	83.0
0°-90°	8434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3471	3471	3471	3471	3471	
5°	3497	3486	3451	3438	3459	327
15°	3226	3238	3104	3388	3370	913
25°	2879	2386	2880	2961	3206	1323
35°	2355	2455	2611	2590	2925	1488
45°	1816	1630	2136	2184	2541	1404
55°	1223	1339	1586	1892	1669	1094
65°	639	717	921	779	900	649
75°	326	378	420	451	444	345
85°	102	136	180	207	135	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3471.1	3471.1	3471.1	3471.1	3471.1
2.5°	3467.1	3452.3	3436.2	3464.4	3469.8
5°	3496.7	3486.0	3451.0	3437.5	3459.0
7.5°	3387.7	3410.6	3442.9	3267.9	3154.9
10°	3355.4	3343.3	3158.9	2432.1	2705.3
12.5°	3344.6	3329.8	2411.9	3381.0	3397.1
15°	3226.2	3238.3	3103.7	3387.7	3370.2
17.5°	3153.5	2986.6	3250.4	3306.9	3276.0
20°	3095.6	2603.0	3188.5	3037.8	2669.0
22.5°	2989.3	2219.4	3064.7	2437.5	2911.2
25°	2878.9	2386.3	2880.3	2961.0	3206.0
27.5°	2772.6	2704.0	2329.8	3090.3	3148.1
30°	2599.0	2681.1	2485.9	3025.6	3066.0
32.5°	2538.4	2560.0	2687.8	2857.4	2722.8
35°	2355.4	2455.0	2611.1	2589.6	2924.7
37.5°	2274.6	2302.9	2506.1	2726.9	2627.3
40°	2098.3	2141.4	2278.7	2409.2	2494.0
42.5°	1983.9	1839.9	2094.3	2335.2	2415.9
45°	1815.7	1629.9	2136.0	2184.4	2541.1
47.5°	1678.4	1619.2	1869.5	2273.3	2273.3
50°	1518.2	1596.3	1726.8	2031.0	1939.5
52.5°	1380.9	1487.3	1593.6	1765.9	2160.2
55°	1223.4	1339.2	1585.5	1892.4	1669.0
57.5°	1068.7	1166.9	1345.9	1449.6	1488.6
60°	938.1	1033.7	1223.4	1302.9	1265.2
62.5°	769.9	891.0	1223.4	1026.9	900.4
65°	639.3	717.4	920.6	779.3	900.4
67.5°	524.9	605.7	818.3	752.4	802.2
70°	448.2	506.1	541.1	673.0	609.7
72.5°	383.6	425.3	495.3	508.8	506.1
75°	325.7	378.2	419.9	450.9	444.2
77.5°	270.5	344.6	345.9	414.5	360.7
80°	205.9	235.5	298.8	270.5	203.2
82.5°	150.7	184.4	227.5	234.2	179.0
85°	102.3	135.9	180.4	207.3	134.6
87.5°	47.1	92.9	146.7	185.7	122.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)