

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-TWB-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 (P34175)
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-TWB-UNV-L850-CD1-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

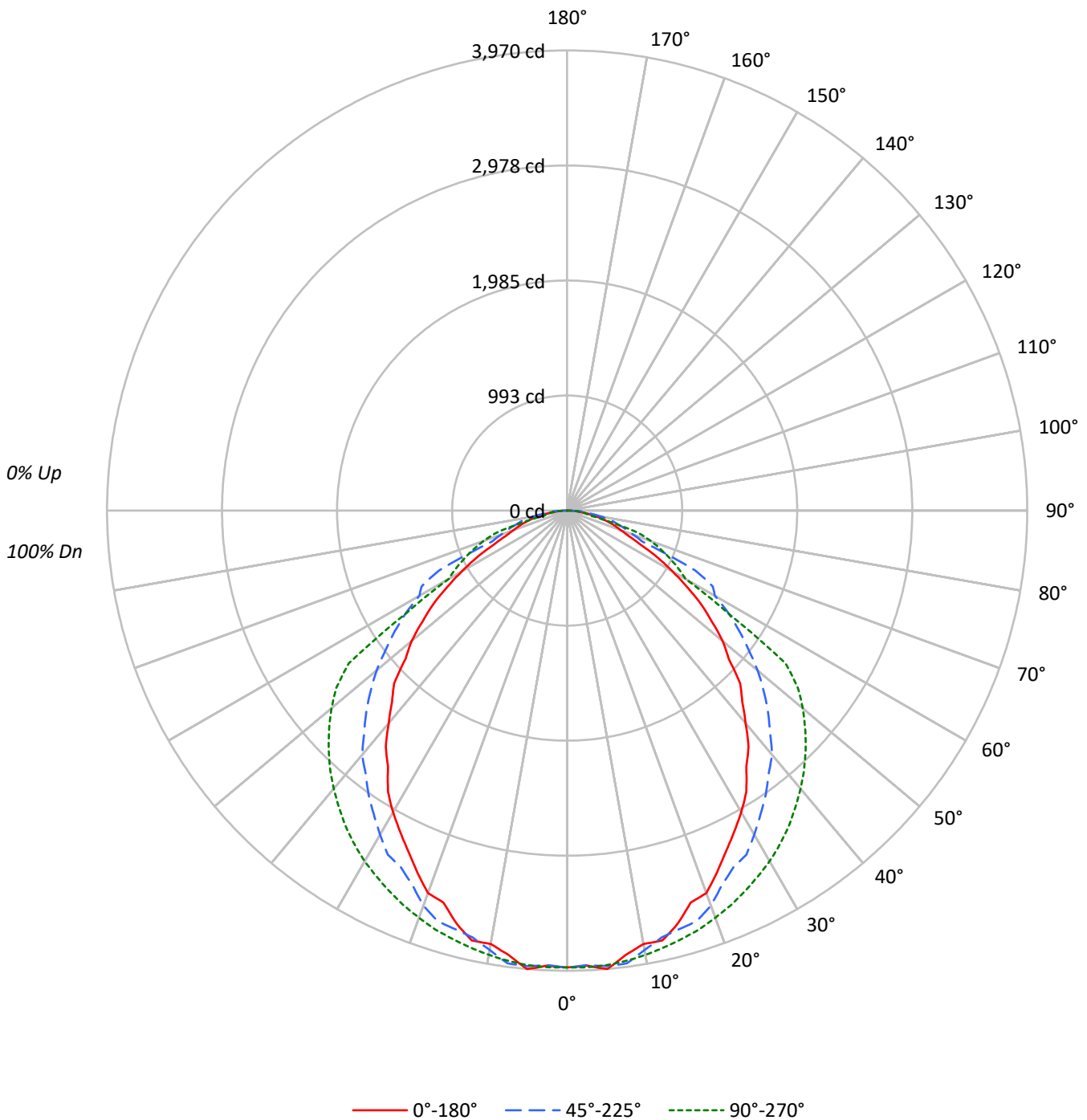
Lumens per Lamp: N/A
Luminaire Lumens: 9941.0 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
Input Voltage (V):
Input Current (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°	5786	5786	5786
5°	5844	5769	5745
10°	5646	5651	5692
15°	5586	5552	5647
20°	5460	5493	5616
25°	5221	5285	5587
30°	5055	5212	5570
35°	4787	5049	5543
40°	4544	4916	5500
45°	4329	4684	5446
50°	3944	4445	5364
55°	3550	4138	5093
60°	3018	3761	2912
65°	2381	3578	2754
70°	2036	2110	2532
75°	1943	1920	1596
80°	1777	1697	940
85°	1415	1275	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.4	3.8
10°-20°	1060.2	10.7
20°-30°	1582.5	15.9
30°-40°	1883.7	18.9
40°-50°	1904.6	19.2
50°-60°	1604.7	16.1
60°-70°	927.3	9.3
70°-80°	457.7	4.6
80°-90°	146.8	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°	3016.2	30.3
0°-40°	4899.9	49.3
0°-60°	8409.2	84.6
0°-90°	9941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3942	3942	3942	3942	3942	
5°	3970	3980	3945	3926	3936	371
15°	3688	3745	3738	3838	3825	1035
25°	3243	3303	3394	3559	3625	1497
35°	2695	2805	2988	3241	3330	1695
45°	2111	2176	2450	2744	2910	1602
55°	1412	1523	1816	2165	2300	1253
65°	704	858	1220	917	978	724
75°	359	441	447	492	396	377
85°	96	118	150	179	106	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3942.0	3942.0	3942.0	3942.0	3942.0
2.5°	3930.0	3934.5	3925.5	3948.0	3943.5
5°	3970.5	3979.5	3945.0	3925.5	3936.0
7.5°	3866.9	3886.5	3940.5	3915.0	3918.0
10°	3796.4	3799.4	3848.9	3928.5	3892.5
12.5°	3799.4	3793.4	3770.9	3907.5	3860.9
15°	3688.4	3745.4	3737.9	3838.4	3824.9
17.5°	3545.8	3601.3	3713.9	3769.4	3788.9
20°	3511.3	3491.8	3626.9	3680.9	3737.9
22.5°	3377.8	3455.8	3493.3	3613.4	3686.9
25°	3242.7	3302.7	3394.3	3559.3	3625.4
27.5°	3121.2	3185.7	3347.8	3508.3	3560.8
30°	3004.1	3064.1	3227.7	3443.8	3493.3
32.5°	2876.6	2951.6	3106.2	3365.8	3415.3
35°	2695.0	2804.6	2987.6	3241.2	3329.7
37.5°	2570.5	2642.5	2857.1	3109.2	3232.2
40°	2396.4	2511.9	2750.5	3007.1	3133.2
42.5°	2235.8	2349.9	2590.0	2879.6	3026.6
45°	2111.3	2175.8	2450.4	2744.5	2909.6
47.5°	1889.2	2052.8	2298.9	2600.5	2785.0
50°	1752.7	1865.2	2145.8	2462.4	2654.5
52.5°	1575.6	1701.6	1973.2	2309.4	2508.9
55°	1412.0	1523.1	1815.7	2165.3	2300.4
57.5°	1226.0	1368.5	1652.1	2001.8	1641.6
60°	1050.4	1192.9	1472.1	1352.0	1179.4
62.5°	882.3	1008.4	1416.5	1017.4	1081.9
65°	703.8	858.3	1220.0	916.8	978.4
67.5°	577.7	685.8	703.8	820.8	874.8
70°	490.7	543.2	607.7	727.8	766.8
72.5°	426.2	448.7	528.2	646.7	652.7
75°	358.6	441.2	447.2	492.2	396.1
77.5°	286.6	355.6	387.1	286.6	202.6
80°	225.1	241.6	298.6	252.1	180.1
82.5°	156.1	178.6	207.1	217.6	148.6
85°	96.0	118.5	150.1	178.6	106.5
87.5°	40.5	64.5	103.5	138.1	58.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)