

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-CL-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 (P34177)
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-CL-UNV-L850-CD1-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9980.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

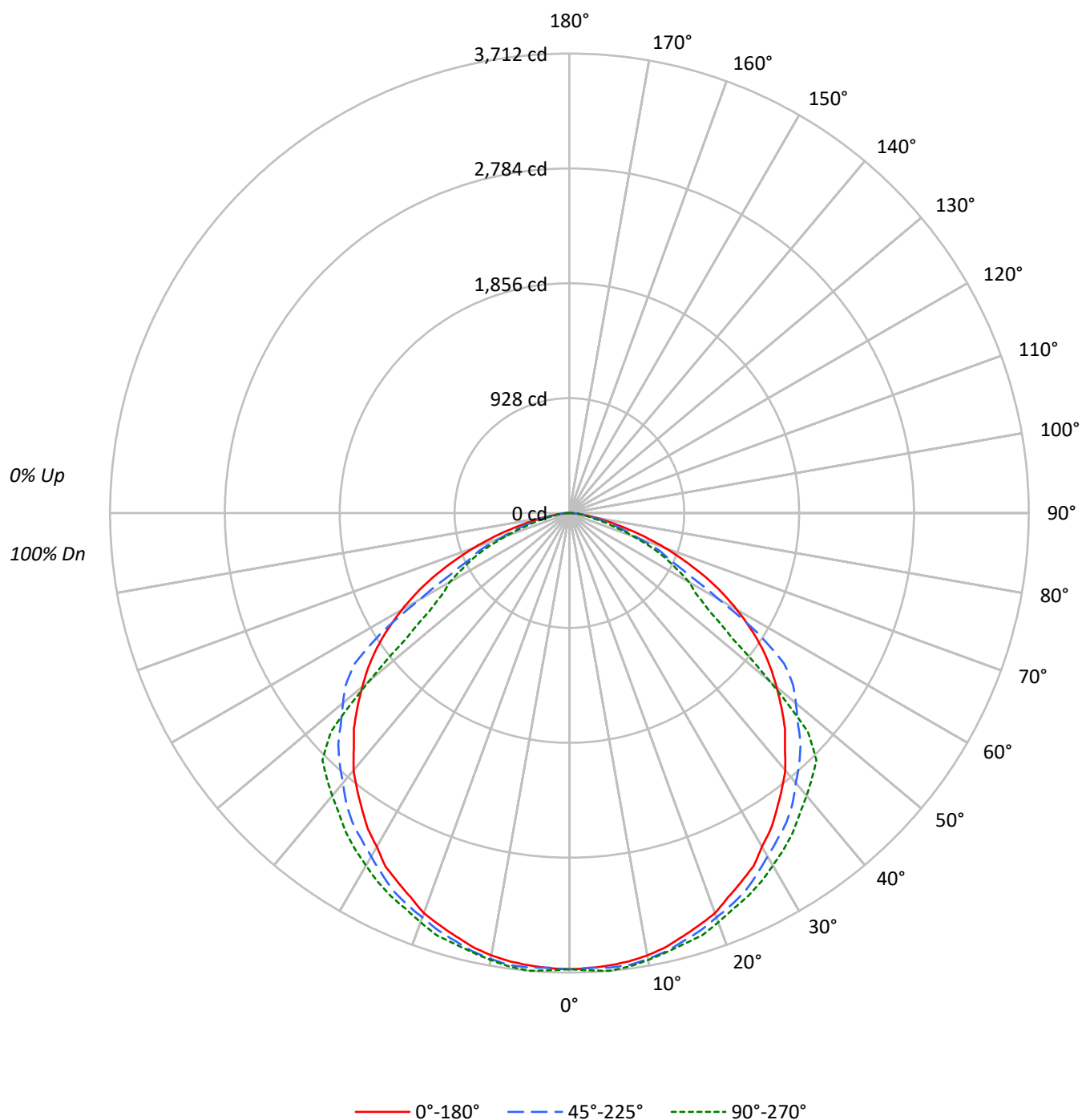
Input Watts (W): 67
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	64	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	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	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°	5409	5409	5409
5°	5400	5391	5418
10°	5396	5371	5360
15°	5361	5313	5317
20°	5348	5266	5284
25°	5291	5243	5261
30°	5237	5173	5242
35°	5189	5163	5241
40°	5144	5087	5234
45°	5048	5048	5282
50°	4916	4948	4272
55°	4772	4825	3057
60°	4497	3566	2760
65°	4065	2618	2399
70°	3412	2058	1804
75°	2529	1527	1203
80°	1647	1074	752
85°	862	650	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.2	3.5
10°-20°	1012.5	10.1
20°-30°	1550.1	15.5
30°-40°	1908.0	19.1
40°-50°	2022.3	20.3
50°-60°	1624.1	16.3
60°-70°	1009.4	10.1
70°-80°	415.4	4.2
80°-90°	87.0	0.9
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°	2913.7	29.2
0°-40°	4821.7	48.3
0°-60°	8468.2	84.9
0°-90°	9980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3685	3685	3685	3685	3685	
5°	3669	3678	3687	3706	3712	349
15°	3540	3589	3577	3601	3601	1000
25°	3286	3321	3367	3405	3414	1516
35°	2922	2994	3055	3132	3148	1829
45°	2462	2516	2641	2767	2822	1894
55°	1898	1982	2117	1511	1380	1689
65°	1202	1287	893	848	852	1184
75°	467	429	356	318	299	512
85°	58	72	76	76	75	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3685.2	3685.2	3685.2	3685.2	3685.2
2.5°	3679.2	3683.7	3676.2	3692.7	3697.2
5°	3668.7	3677.7	3686.7	3706.2	3712.2
7.5°	3653.7	3673.2	3683.7	3695.7	3695.7
10°	3628.2	3658.2	3658.2	3662.7	3665.7
12.5°	3592.2	3632.7	3625.2	3628.2	3632.7
15°	3539.7	3589.2	3577.2	3601.2	3601.2
17.5°	3490.2	3532.2	3533.7	3563.7	3574.2
20°	3439.2	3473.7	3476.7	3520.2	3517.2
22.5°	3356.6	3409.1	3424.1	3448.2	3460.2
25°	3286.1	3320.6	3367.1	3404.6	3413.6
27.5°	3218.6	3247.1	3284.6	3349.1	3356.6
30°	3112.0	3172.1	3203.6	3289.1	3287.6
32.5°	3028.0	3082.0	3127.0	3209.6	3221.6
35°	2921.5	2993.5	3055.0	3131.5	3148.1
37.5°	2817.9	2884.0	2960.5	3035.5	3058.0
40°	2712.9	2772.9	2846.5	2936.5	2981.5
42.5°	2577.9	2651.4	2747.4	2851.0	2902.0
45°	2462.3	2516.3	2640.9	2766.9	2822.4
47.5°	2322.8	2393.3	2502.8	2663.4	2612.4
50°	2184.7	2265.8	2388.8	2412.8	2114.2
52.5°	2048.2	2129.2	2277.8	1908.6	1653.6
55°	1898.1	1982.2	2117.2	1511.0	1380.5
57.5°	1734.6	1814.1	1802.1	1254.4	1209.4
60°	1565.0	1643.1	1395.5	1098.4	1117.9
62.5°	1389.5	1473.5	1095.4	1003.8	973.8
65°	1201.9	1287.4	892.8	847.8	852.3
67.5°	1006.8	1078.9	783.3	723.2	708.2
70°	822.3	843.3	592.7	576.2	546.2
72.5°	637.7	610.7	471.2	435.1	403.6
75°	466.7	429.1	355.6	318.1	298.6
77.5°	324.1	297.1	256.6	270.1	199.6
80°	208.6	193.6	189.1	150.1	144.0
82.5°	123.0	121.5	117.0	108.0	105.0
85°	58.5	72.0	76.5	76.5	75.0
87.5°	21.0	36.0	48.0	51.0	54.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)