

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-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 (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-L840-CD1-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

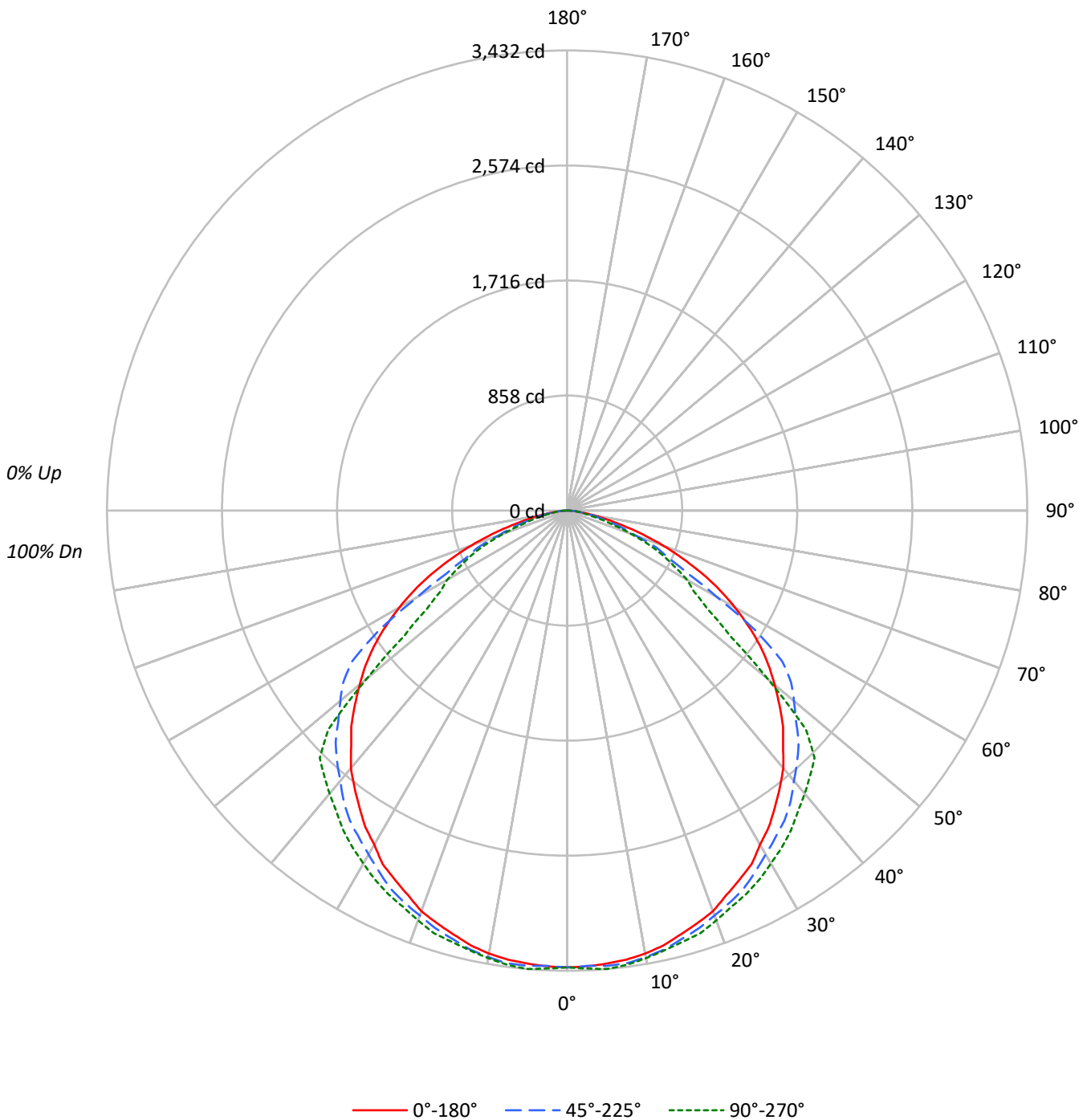
Lumens per Lamp: N/A
Luminaire Lumens: 9227.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
Input Voltage (V):
Input Current (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	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°	5001	5001	5001
5°	4992	4985	5009
10°	4989	4966	4956
15°	4956	4913	4916
20°	4944	4868	4885
25°	4892	4847	4864
30°	4842	4783	4846
35°	4798	4774	4845
40°	4756	4703	4839
45°	4667	4667	4884
50°	4545	4575	3950
55°	4412	4462	2826
60°	4158	3297	2552
65°	3759	2420	2218
70°	3154	1902	1667
75°	2337	1412	1113
80°	1522	993	696
85°	797	601	520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.7	3.5
10°-20°	936.1	10.1
20°-30°	1433.1	15.5
30°-40°	1764.1	19.1
40°-50°	1869.7	20.3
50°-60°	1501.6	16.3
60°-70°	933.2	10.1
70°-80°	384.1	4.2
80°-90°	80.5	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°	2693.9	29.2
0°-40°	4458.0	48.3
0°-60°	7829.2	84.9
0°-90°	9227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3407	3407	3407	3407	3407	
5°	3392	3400	3409	3427	3432	323
15°	3273	3318	3307	3330	3330	925
25°	3038	3070	3113	3148	3156	1402
35°	2701	2768	2824	2895	2910	1691
45°	2276	2326	2442	2558	2610	1751
55°	1755	1833	1958	1397	1276	1562
65°	1111	1190	825	784	788	1095
75°	431	397	329	294	276	473
85°	54	67	71	71	69	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3407.2	3407.2	3407.2	3407.2	3407.2
2.5°	3401.6	3405.8	3398.9	3414.1	3418.3
5°	3391.9	3400.2	3408.6	3426.6	3432.2
7.5°	3378.0	3396.1	3405.8	3416.9	3416.9
10°	3354.5	3382.2	3382.2	3386.4	3389.1
12.5°	3321.2	3358.6	3351.7	3354.5	3358.6
15°	3272.6	3318.4	3307.3	3329.5	3329.5
17.5°	3226.8	3265.7	3267.1	3294.8	3304.5
20°	3179.7	3211.6	3214.3	3254.6	3251.8
22.5°	3103.4	3151.9	3165.8	3188.0	3199.1
25°	3038.2	3070.1	3113.1	3147.8	3156.1
27.5°	2975.7	3002.1	3036.8	3096.4	3103.4
30°	2877.2	2932.7	2961.9	3040.9	3039.5
32.5°	2799.5	2849.5	2891.1	2967.4	2978.5
35°	2701.1	2767.6	2824.5	2895.3	2910.5
37.5°	2605.3	2666.4	2737.1	2806.5	2827.3
40°	2508.2	2563.7	2631.7	2714.9	2756.5
42.5°	2383.4	2451.3	2540.1	2635.8	2683.0
45°	2276.5	2326.5	2441.6	2558.2	2609.5
47.5°	2147.5	2212.7	2314.0	2462.4	2415.3
50°	2019.9	2094.8	2208.6	2230.8	1954.7
52.5°	1893.6	1968.6	2105.9	1764.6	1528.8
55°	1754.9	1832.6	1957.5	1397.0	1276.3
57.5°	1603.7	1677.2	1666.1	1159.8	1118.2
60°	1446.9	1519.1	1290.2	1015.5	1033.5
62.5°	1284.6	1362.3	1012.7	928.1	900.4
65°	1111.2	1190.3	825.4	783.8	788.0
67.5°	930.9	997.5	724.2	668.7	654.8
70°	760.2	779.7	548.0	532.7	505.0
72.5°	589.6	564.6	435.6	402.3	373.2
75°	431.4	396.8	328.8	294.1	276.1
77.5°	299.7	274.7	237.2	249.7	184.5
80°	192.8	179.0	174.8	138.7	133.2
82.5°	113.8	112.4	108.2	99.9	97.1
85°	54.1	66.6	70.8	70.8	69.4
87.5°	19.4	33.3	44.4	47.2	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)