

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-LD5-11-W-CL-UNV-L835-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: 4ILED-LD5-11-W-CL-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

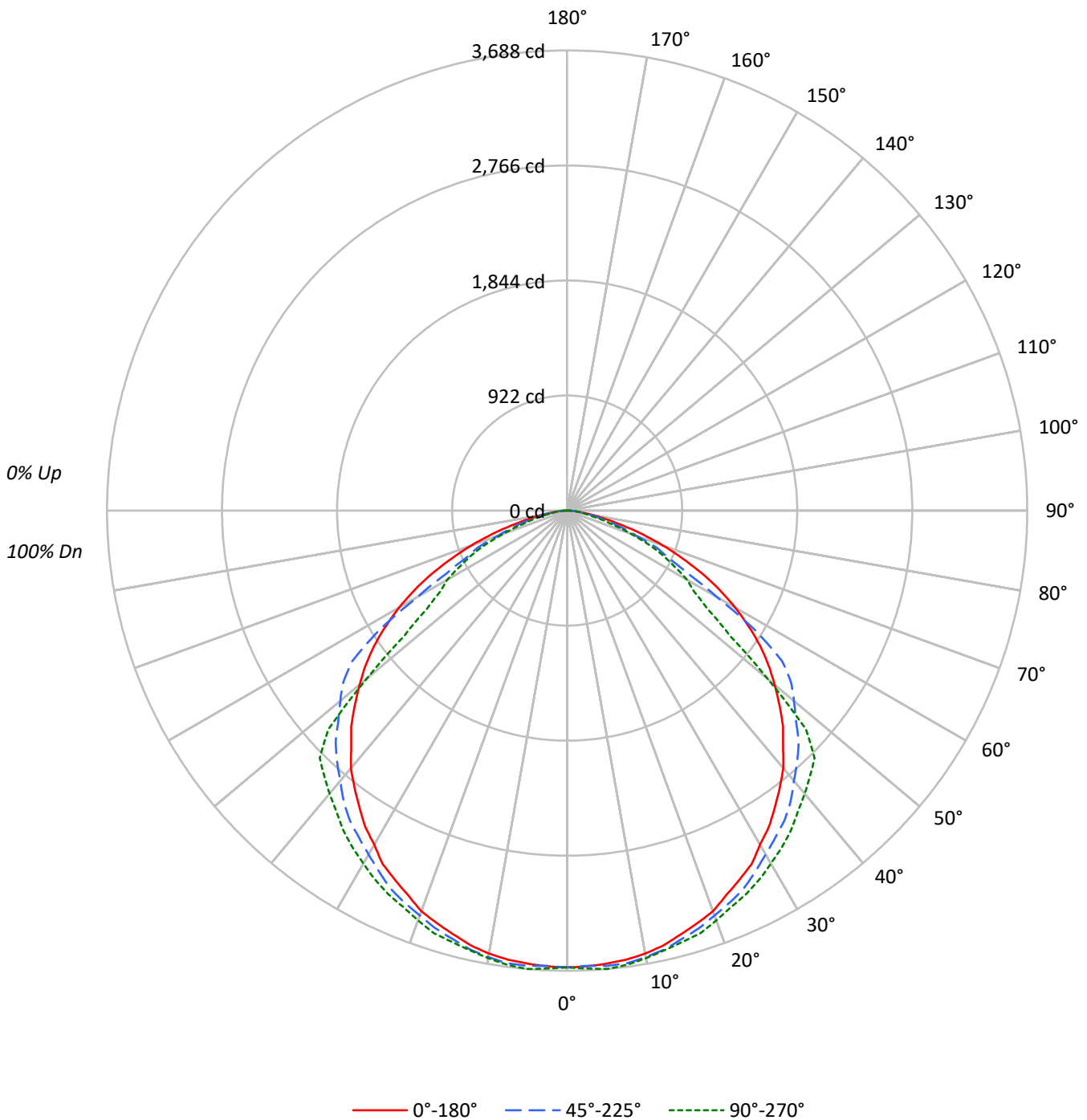
Lumens per Lamp: N/A
Luminaire Lumens: 9915.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
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°	10748	10748	10748
5°	10717	10705	10765
10°	10698	10656	10651
15°	10616	10533	10565
20°	10578	10430	10499
25°	10453	10377	10453
30°	10331	10229	10416
35°	10223	10200	10413
40°	10116	10038	10399
45°	9908	9949	10496
50°	9626	9738	8489
55°	9319	9481	6073
60°	8750	6992	5484
65°	7872	5120	4766
70°	6561	4009	3583
75°	4810	2960	2392
80°	3068	2065	1495
85°	1522	1228	1117



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.9	3.5
10°-20°	1005.9	10.1
20°-30°	1540.0	15.5
30°-40°	1895.6	19.1
40°-50°	2009.1	20.3
50°-60°	1613.6	16.3
60°-70°	1002.8	10.1
70°-80°	412.7	4.2
80°-90°	86.5	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°	2894.8	29.2
0°-40°	4790.4	48.3
0°-60°	8413.0	84.9
0°-90°	9915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3661	3661	3661	3661	3661	
5°	3645	3654	3663	3682	3688	347
15°	3517	3566	3554	3578	3578	994
25°	3265	3299	3345	3382	3391	1506
35°	2902	2974	3035	3111	3128	1817
45°	2446	2500	2624	2749	2804	1882
55°	1886	1969	2103	1501	1372	1678
65°	1194	1279	887	842	847	1177
75°	464	426	353	316	297	508
85°	58	72	76	76	74	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3661.2	3661.2	3661.2	3661.2	3661.2
2.5°	3655.3	3659.7	3652.3	3668.7	3673.2
5°	3644.8	3653.8	3662.7	3682.1	3688.1
7.5°	3629.9	3649.3	3659.7	3671.7	3671.7
10°	3604.6	3634.4	3634.4	3638.9	3641.9
12.5°	3568.8	3609.1	3601.6	3604.6	3609.1
15°	3516.6	3565.8	3553.9	3577.8	3577.8
17.5°	3467.4	3509.2	3510.7	3540.5	3550.9
20°	3416.8	3451.0	3454.0	3497.3	3494.3
22.5°	3334.8	3386.9	3401.8	3425.7	3437.6
25°	3264.7	3299.0	3345.2	3382.5	3391.4
27.5°	3197.6	3225.9	3263.2	3327.3	3334.8
30°	3091.8	3151.4	3182.7	3267.7	3266.2
32.5°	3008.3	3062.0	3106.7	3188.7	3200.6
35°	2902.5	2974.0	3035.1	3111.2	3127.6
37.5°	2799.6	2865.2	2941.2	3015.7	3038.1
40°	2695.2	2754.9	2827.9	2917.4	2962.1
42.5°	2561.1	2634.1	2729.5	2832.4	2883.1
45°	2446.3	2500.0	2623.7	2748.9	2804.1
47.5°	2307.6	2377.7	2486.5	2646.0	2595.4
50°	2170.5	2251.0	2373.2	2397.1	2100.4
52.5°	2034.8	2115.3	2262.9	1896.2	1642.8
55°	1885.8	1969.3	2103.4	1501.2	1371.5
57.5°	1723.3	1802.3	1790.4	1246.3	1201.5
60°	1554.8	1632.3	1386.4	1091.2	1110.6
62.5°	1380.4	1463.9	1088.2	997.3	967.5
65°	1194.1	1279.0	887.0	842.3	846.7
67.5°	1000.3	1071.8	778.2	718.5	703.6
70°	816.9	837.8	588.8	572.4	542.6
72.5°	633.6	606.7	468.1	432.3	401.0
75°	463.6	426.3	353.3	316.0	296.7
77.5°	322.0	295.2	254.9	268.3	198.3
80°	207.2	192.3	187.8	149.1	143.1
82.5°	122.2	120.7	116.3	107.3	104.4
85°	58.1	71.6	76.0	76.0	74.5
87.5°	20.9	35.8	47.7	50.7	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)