

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-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 (P34173)
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-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

Summary

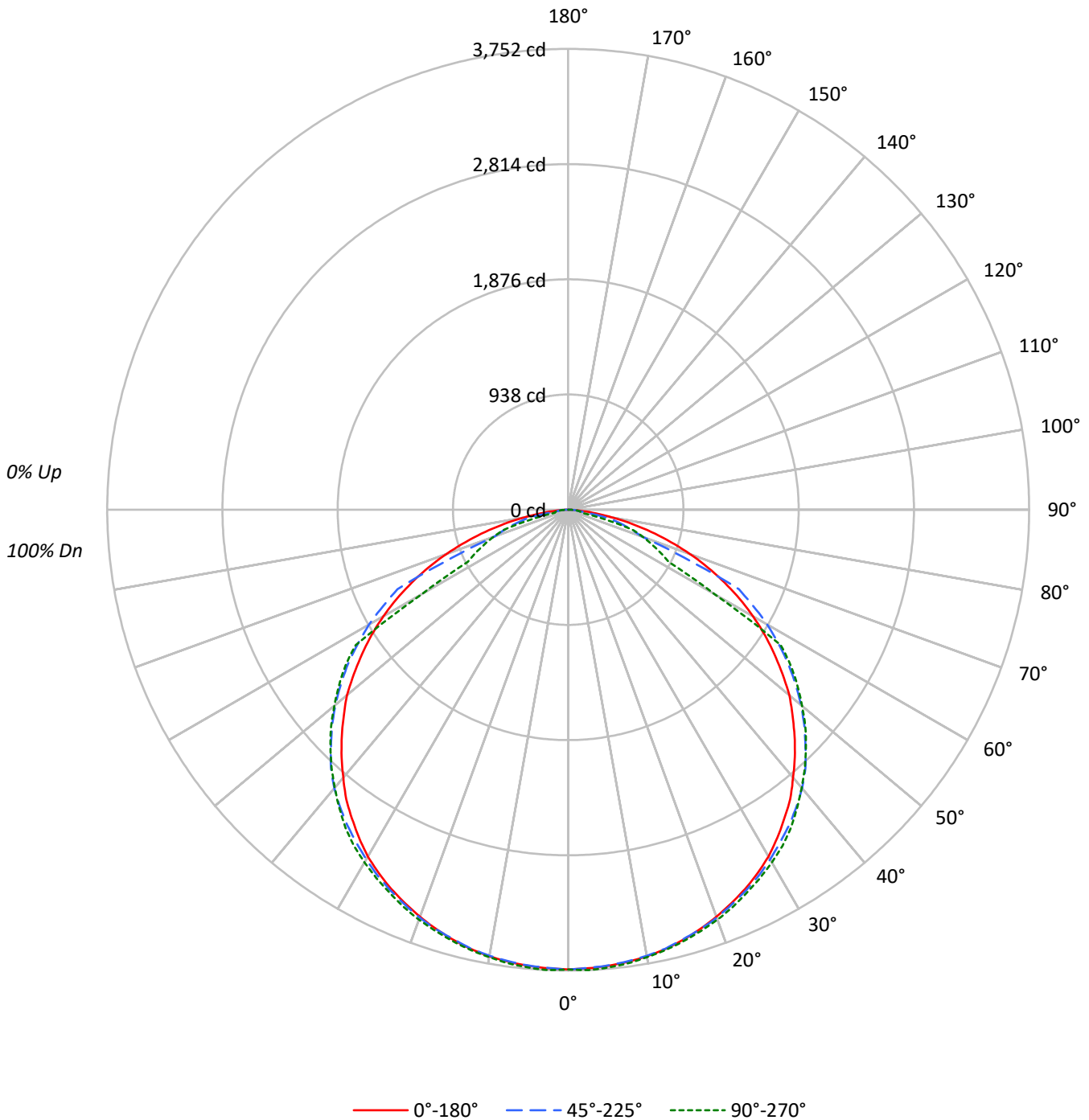
Lumens per Lamp: N/A
Luminaire Lumens: 10802.0 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10989	10989	10989
5°	10963	10887	10922
10°	10959	10813	10821
15°	10940	10728	10736
20°	10919	10673	10674
25°	10906	10612	10605
30°	10894	10564	10572
35°	10805	10535	10522
40°	10687	10515	10378
45°	10554	10356	10245
50°	10426	10154	10043
55°	10115	9858	9796
60°	9782	9442	6802
65°	9258	8854	4666
70°	8464	4314	4273
75°	7238	3747	2667
80°	5363	2212	1090
85°	2656	1109	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.1	3.3
10°-20°	1025.2	9.5
20°-30°	1580.8	14.6
30°-40°	1957.4	18.1
40°-50°	2083.7	19.3
50°-60°	1922.7	17.8
60°-70°	1231.0	11.4
70°-80°	554.5	5.1
80°-90°	91.6	0.8
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°	2961.1	27.4
0°-40°	4918.5	45.5
0°-60°	8924.9	82.6
0°-90°	10802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3743	3743	3743	3743	3743	
5°	3728	3734	3725	3736	3742	355
15°	3624	3630	3620	3637	3636	1023
25°	3406	3415	3421	3444	3441	1571
35°	3068	3099	3135	3168	3160	1920
45°	2606	2659	2731	2749	2737	2011
55°	2047	2121	2187	2223	2212	1831
65°	1404	1471	1534	847	829	1387
75°	698	759	447	459	331	741
85°	101	76	69	73	67	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3743.2	3743.2	3743.2	3743.2	3743.2
2.5°	3737.2	3744.7	3734.2	3744.7	3752.1
5°	3728.3	3734.2	3725.3	3735.7	3741.7
7.5°	3713.4	3719.3	3708.9	3719.3	3725.3
10°	3692.5	3695.5	3688.0	3698.5	3700.0
12.5°	3662.7	3665.7	3659.7	3670.1	3671.6
15°	3623.9	3629.9	3619.5	3637.4	3635.9
17.5°	3579.2	3585.2	3580.7	3594.1	3595.6
20°	3527.0	3533.0	3534.5	3550.9	3552.4
22.5°	3468.9	3477.8	3479.3	3501.7	3500.2
25°	3406.3	3415.2	3421.2	3443.6	3440.6
27.5°	3337.7	3349.6	3358.6	3380.9	3380.9
30°	3260.2	3276.6	3287.0	3316.8	3315.4
32.5°	3167.8	3199.1	3211.0	3248.3	3245.3
35°	3067.9	3099.2	3135.0	3167.8	3160.3
37.5°	2969.5	3000.8	3050.0	3069.4	3060.4
40°	2847.3	2899.4	2962.1	2969.5	2956.1
42.5°	2731.0	2772.7	2857.7	2862.2	2850.3
45°	2605.8	2659.4	2731.0	2748.9	2737.0
47.5°	2476.1	2522.3	2605.8	2628.1	2619.2
50°	2350.9	2392.6	2474.6	2497.0	2485.0
52.5°	2197.3	2259.9	2330.0	2365.8	2352.4
55°	2046.8	2121.3	2186.9	2222.7	2212.2
57.5°	1896.2	1978.2	2027.4	2076.6	2051.2
60°	1738.2	1818.7	1872.3	1850.0	1377.4
62.5°	1574.2	1651.7	1696.4	1137.4	922.8
65°	1404.3	1471.3	1533.9	846.7	828.8
67.5°	1231.3	1298.4	1021.1	752.8	736.4
70°	1053.9	1116.5	633.6	655.9	647.0
72.5°	875.1	934.7	544.1	569.5	557.5
75°	697.7	758.8	447.2	459.1	330.9
77.5°	532.2	523.2	360.8	253.4	113.3
80°	362.2	241.5	201.2	105.8	104.4
82.5°	225.1	162.5	85.0	93.9	92.4
85°	101.4	76.0	68.6	73.0	67.1
87.5°	35.8	37.3	41.7	38.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)