

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

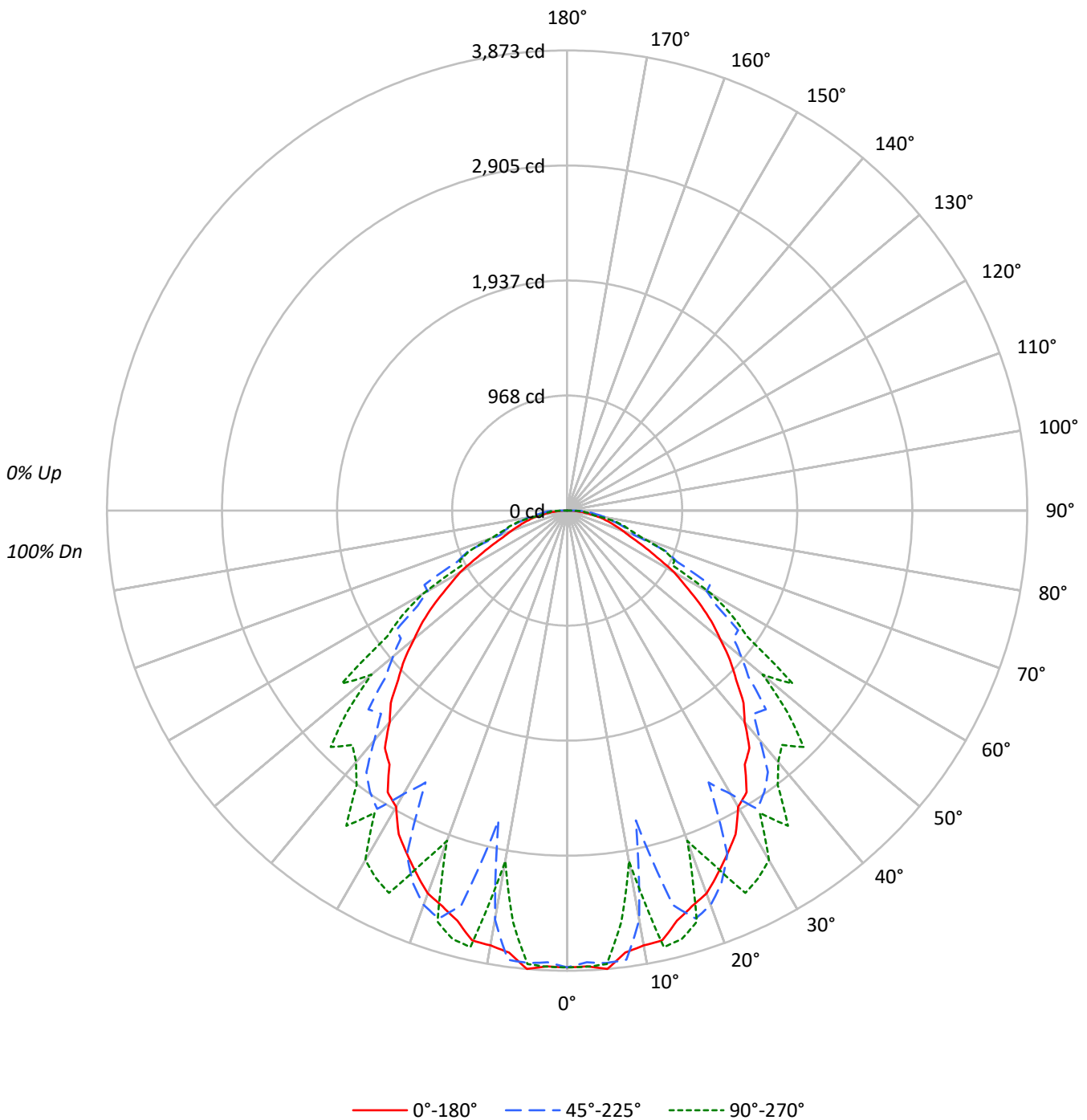
Lumens per Lamp: N/A
Luminaire Lumens: 9341.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
Input Voltage (V):
Input Current (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					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	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53					53			
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11286	11286	11286
5°	11388	11170	11183
10°	11029	10257	8763
15°	10787	10188	11022
20°	10614	10664	8882
25°	10209	9895	10945
30°	9619	8849	10829
35°	9188	9719	10785
40°	8723	8959	9698
45°	8145	8971	10535
50°	7457	7848	8682
55°	6696	7916	8185
60°	5847	6833	6919
65°	4668	5886	5614
70°	3987	4080	4460
75°	3742	3897	3965
80°	3377	3638	2351
85°	2968	3228	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	3.8
10°-20°	983.7	10.5
20°-30°	1422.1	15.2
30°-40°	1781.1	19.1
40°-50°	1733.7	18.6
50°-60°	1484.0	15.9
60°-70°	920.6	9.9
70°-80°	479.1	5.1
80°-90°	186.1	2.0
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°	2756.4	29.5
0°-40°	4537.4	48.6
0°-60°	7755.2	83.0
0°-90°	9341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3844	3844	3844	3844	3844	
5°	3873	3861	3822	3807	3831	362
15°	3573	3587	3438	3752	3733	1011
25°	3188	2643	3190	3280	3551	1465
35°	2609	2719	2892	2868	3239	1648
45°	2011	1805	2366	2419	2814	1555
55°	1355	1483	1756	2096	1848	1212
65°	708	794	1020	863	997	719
75°	361	419	465	499	492	382
85°	113	151	200	230	149	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3844.4	3844.4	3844.4	3844.4	3844.4
2.5°	3840.0	3823.6	3805.7	3837.0	3842.9
5°	3872.8	3860.8	3822.1	3807.2	3831.0
7.5°	3752.0	3777.4	3813.1	3619.3	3494.1
10°	3716.2	3702.8	3498.6	2693.6	2996.2
12.5°	3704.3	3687.9	2671.3	3744.6	3762.5
15°	3573.1	3586.6	3437.5	3752.0	3732.6
17.5°	3492.6	3307.8	3600.0	3662.6	3628.3
20°	3428.5	2883.0	3531.4	3364.4	2956.0
22.5°	3310.8	2458.1	3394.3	2699.6	3224.3
25°	3188.5	2643.0	3190.0	3279.5	3550.8
27.5°	3070.8	2994.8	2580.4	3422.6	3486.7
30°	2878.5	2969.4	2753.3	3351.0	3395.7
32.5°	2811.4	2835.3	2976.9	3164.7	3015.6
35°	2608.7	2719.0	2891.9	2868.1	3239.2
37.5°	2519.2	2550.5	2775.6	3020.1	2909.8
40°	2324.0	2371.7	2523.7	2668.3	2762.2
42.5°	2197.2	2037.7	2319.5	2586.3	2675.8
45°	2010.9	1805.2	2365.7	2419.4	2814.4
47.5°	1858.9	1793.3	2070.5	2517.7	2517.7
50°	1681.5	1767.9	1912.5	2249.4	2148.1
52.5°	1529.4	1647.2	1765.0	1955.8	2392.5
55°	1355.0	1483.2	1756.0	2095.9	1848.4
57.5°	1183.6	1292.4	1490.7	1605.5	1648.7
60°	1039.0	1144.8	1355.0	1443.0	1401.2
62.5°	852.7	986.8	1355.0	1137.4	997.3
65°	708.1	794.5	1019.6	863.1	997.3
67.5°	581.4	670.8	906.3	833.3	888.4
70°	496.4	560.5	599.2	745.3	675.3
72.5°	424.8	471.1	548.6	563.5	560.5
75°	360.7	418.9	465.1	499.4	491.9
77.5°	299.6	381.6	383.1	459.1	399.5
80°	228.1	260.9	330.9	299.6	225.1
82.5°	167.0	204.2	251.9	259.4	198.3
85°	113.3	150.6	199.7	229.6	149.1
87.5°	52.2	102.9	162.5	205.7	135.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)