

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-TWB-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 (P34175)
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-TWB-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

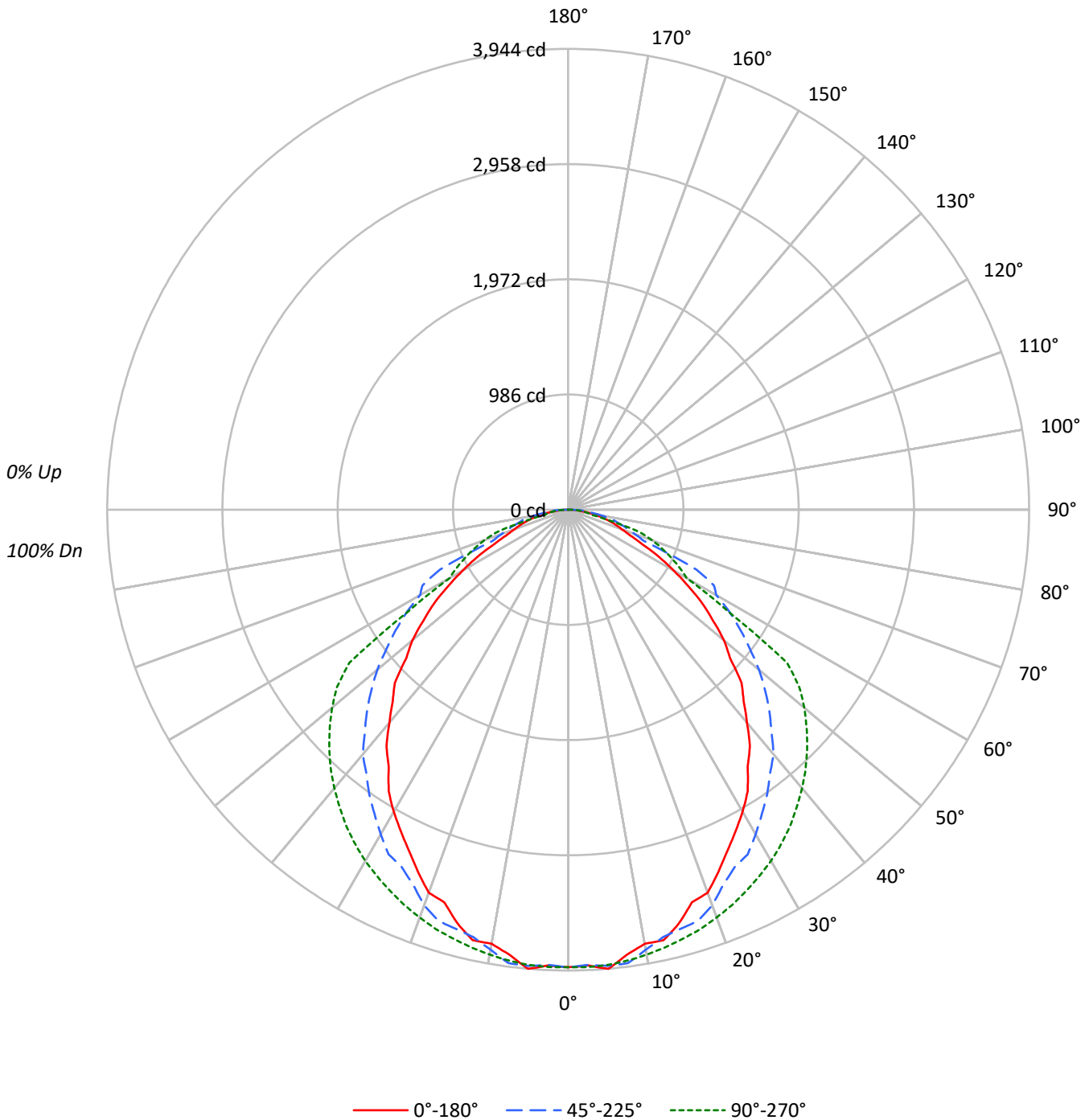
Lumens per Lamp: N/A
Luminaire Lumens: 9876.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	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	50	60	54	49	58	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11496	11496	11496
5°	11598	11454	11414
10°	11193	11211	11310
15°	11062	11006	11221
20°	10800	10881	11158
25°	10314	10460	11101
30°	9973	10305	11067
35°	9430	9975	11014
40°	8936	9700	10928
45°	8496	9231	10820
50°	7722	8747	10658
55°	6932	8131	10120
60°	5872	7375	5786
65°	4610	6996	5472
70°	3915	4111	5031
75°	3696	3721	3173
80°	3311	3262	1868
85°	2499	2410	1586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.0	3.8
10°-20°	1053.3	10.7
20°-30°	1572.2	15.9
30°-40°	1871.4	18.9
40°-50°	1892.1	19.2
50°-60°	1594.2	16.1
60°-70°	921.2	9.3
70°-80°	454.7	4.6
80°-90°	145.8	1.5
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°	2996.5	30.3
0°-40°	4867.9	49.3
0°-60°	8354.3	84.6
0°-90°	9876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3916	3916	3916	3916	3916	
5°	3944	3954	3919	3900	3910	369
15°	3664	3721	3714	3813	3800	1029
25°	3222	3281	3372	3536	3602	1488
35°	2677	2786	2968	3220	3308	1684
45°	2098	2162	2434	2727	2891	1592
55°	1403	1513	1804	2151	2285	1245
65°	699	853	1212	911	972	720
75°	356	438	444	489	394	375
85°	95	118	149	177	106	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3916.2	3916.2	3916.2	3916.2	3916.2
2.5°	3904.3	3908.7	3899.8	3922.2	3917.7
5°	3944.5	3953.5	3919.2	3899.8	3910.2
7.5°	3841.7	3861.0	3914.7	3889.4	3892.4
10°	3771.6	3774.6	3823.8	3902.8	3867.0
12.5°	3774.6	3768.6	3746.3	3881.9	3835.7
15°	3664.3	3720.9	3713.5	3813.3	3799.9
17.5°	3522.6	3577.8	3689.6	3744.8	3764.1
20°	3488.4	3469.0	3603.1	3656.8	3713.5
22.5°	3355.7	3433.2	3470.5	3589.7	3662.8
25°	3221.5	3281.1	3372.1	3536.1	3601.7
27.5°	3100.8	3164.9	3325.9	3485.4	3537.6
30°	2984.5	3044.1	3206.6	3421.3	3470.5
32.5°	2857.8	2932.3	3085.9	3343.8	3392.9
35°	2677.4	2786.2	2968.1	3220.0	3308.0
37.5°	2553.7	2625.2	2838.4	3088.8	3211.1
40°	2380.7	2495.5	2732.5	2987.5	3112.7
42.5°	2221.2	2334.5	2573.0	2860.8	3006.8
45°	2097.5	2161.6	2434.4	2726.6	2890.6
47.5°	1876.9	2039.3	2283.8	2583.5	2766.8
50°	1741.2	1853.0	2131.8	2446.3	2637.1
52.5°	1565.3	1690.5	1960.3	2294.3	2492.5
55°	1402.8	1513.1	1803.8	2151.2	2285.3
57.5°	1217.9	1359.6	1641.3	1988.7	1630.9
60°	1043.5	1185.1	1462.4	1343.2	1171.7
62.5°	876.6	1001.8	1407.3	1010.7	1074.8
65°	699.2	852.7	1212.0	910.8	972.0
67.5°	573.9	681.3	699.2	815.4	869.1
70°	487.5	539.7	603.8	723.0	761.8
72.5°	423.4	445.7	524.7	642.5	648.5
75°	356.3	438.3	444.2	489.0	393.6
77.5°	284.7	353.3	384.6	284.7	201.3
80°	223.6	240.0	296.7	250.4	178.9
82.5°	155.0	177.4	205.7	216.2	147.6
85°	95.4	117.8	149.1	177.4	105.8
87.5°	40.3	64.1	102.9	137.1	58.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)