

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-LD5-16-W-ASYWG-UNV-L835-CD2-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 (P34184)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-16-W-ASYWG-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

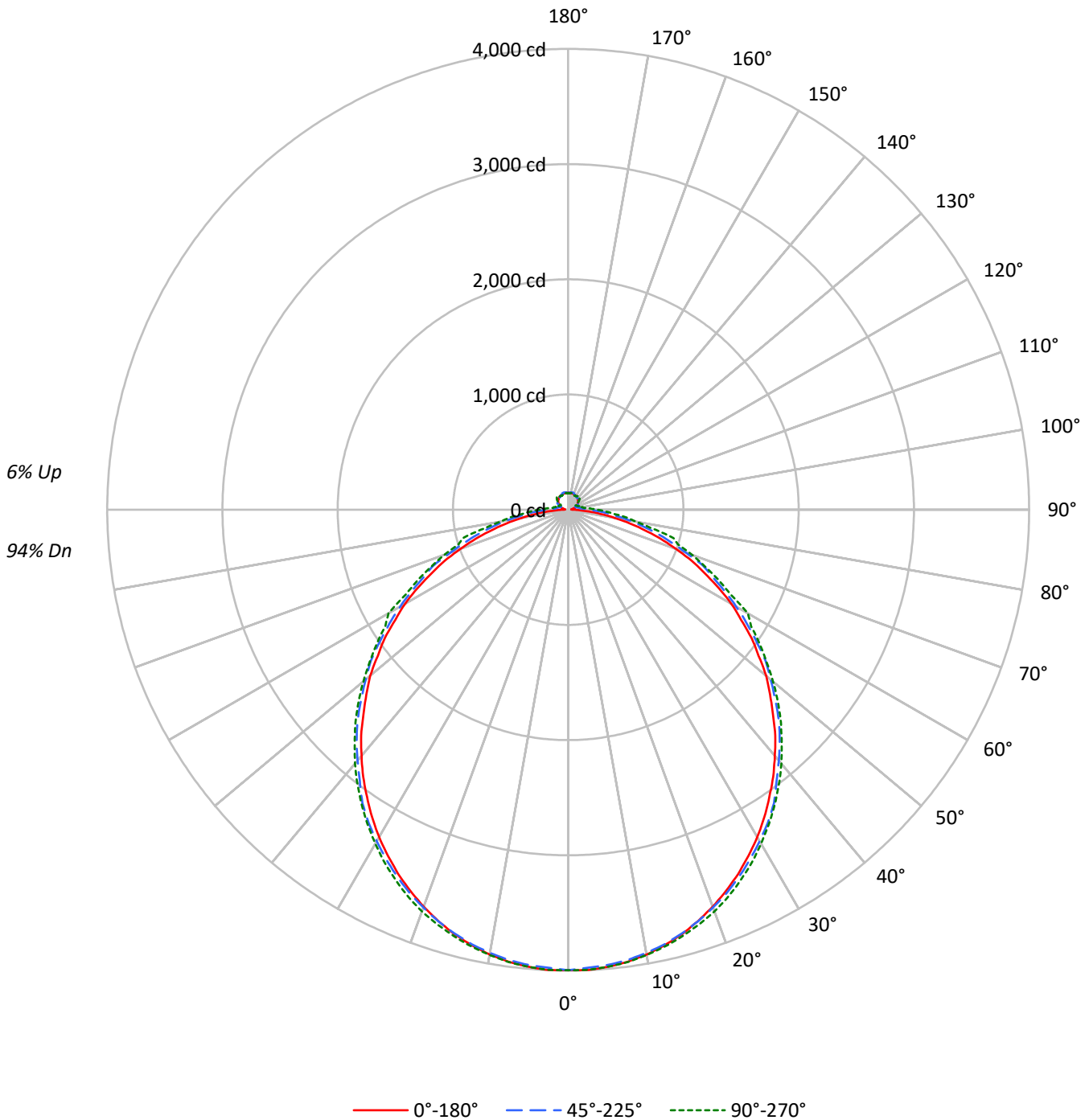
Lumens per Lamp: N/A
Luminaire Lumens: 12045.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 126.6
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	91	94	91	87	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	76	72	78	73	69	74	70	67	65
3	88	78	70	63	85	76	68	62	72	66	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	46
5	74	62	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	40	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11735	11735	11735
5°	11708	11592	11623
10°	11634	11455	11478
15°	11515	11286	11316
20°	11352	11100	11150
25°	11169	10896	10929
30°	10964	10680	10674
35°	10718	10457	10403
40°	10471	10091	10104
45°	10175	9802	9766
50°	9949	9413	9378
55°	9605	8990	8977
60°	9214	8490	8890
65°	8629	7976	8075
70°	7982	7383	7538
75°	7132	6701	7620
80°	6069	6008	6237
85°	4791	5413	5846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.8	3.1
10°-20°	1077.4	8.9
20°-30°	1620.8	13.5
30°-40°	1937.2	16.1
40°-50°	1987.4	16.5
50°-60°	1783.4	14.8
60°-70°	1370.3	11.4
70°-80°	838.4	7.0
80°-90°	355.5	3.0
90°-100°	125.2	1.0
100°-110°	87.5	0.7
110°-120°	81.7	0.7
120°-130°	95.1	0.8
130°-140°	100.7	0.8
140°-150°	85.2	0.7
150°-160°	65.0	0.5
160°-170°	42.2	0.4
170°-180°	14.1	0.1
0°-30°	3076.0	25.5
0°-40°	5013.2	41.6
0°-60°	8784.0	72.9
0°-90°	11348.2	94.2
90°-120°	294.3	2.4
90°-150°	575.4	4.8
90°-180°	697.0	5.8
0°-180°	12045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3997	3997	3997	3997	3997	
5°	3982	3982	3966	3982	3982	378
15°	3814	3817	3808	3828	3832	1075
25°	3488	3495	3512	3543	3546	1607
35°	3043	3083	3112	3118	3125	1905
45°	2512	2556	2585	2605	2609	1943
55°	1944	1961	1994	2023	2027	1732
65°	1309	1333	1382	1426	1434	1301
75°	688	725	800	846	945	732
85°	183	249	335	379	390	196
90°	35	99	190	240	251	27
95°	29	68	117	156	163	26
105°	55	53	79	126	117	58
115°	82	90	68	79	84	82
125°	104	104	123	106	88	93
135°	121	119	130	145	141	93
145°	132	137	130	137	143	83
155°	141	150	141	134	134	65
165°	145	150	154	150	145	41
175°	148	148	148	148	143	14
180°	145	145	145	145	145	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3997.3	3997.3	3997.3	3997.3	3997.3
2.5°	3999.5	3997.3	3979.7	3992.9	3997.3
5°	3981.9	3981.9	3966.5	3981.9	3981.9
7.5°	3957.7	3955.5	3942.2	3955.5	3959.9
10°	3920.2	3920.2	3907.0	3922.4	3924.6
12.5°	3871.7	3873.9	3862.9	3878.3	3882.7
15°	3814.4	3816.6	3807.8	3827.6	3832.1
17.5°	3743.9	3748.3	3746.1	3768.2	3774.8
20°	3666.8	3680.0	3675.6	3704.2	3710.9
22.5°	3580.8	3589.7	3598.5	3629.3	3633.7
25°	3488.3	3494.9	3512.5	3543.4	3545.6
27.5°	3386.9	3404.6	3420.0	3444.2	3453.0
30°	3281.2	3305.4	3323.0	3345.1	3347.3
32.5°	3166.6	3199.6	3221.7	3232.7	3239.3
35°	3043.2	3082.8	3111.5	3118.1	3124.7
37.5°	2922.0	2963.8	2970.4	3001.3	3003.5
40°	2789.8	2838.2	2842.6	2871.3	2877.9
42.5°	2659.7	2686.2	2717.0	2743.5	2741.3
45°	2512.1	2556.2	2584.8	2604.7	2609.1
47.5°	2375.5	2426.2	2435.0	2459.2	2468.0
50°	2243.3	2282.9	2293.9	2324.8	2320.4
52.5°	2082.4	2126.5	2159.5	2170.5	2170.5
55°	1943.6	1961.2	1994.3	2022.9	2027.3
57.5°	1778.3	1806.9	1837.8	1877.5	1881.9
60°	1637.3	1659.3	1683.5	1749.7	1800.3
62.5°	1472.0	1494.0	1529.3	1584.4	1584.4
65°	1308.9	1333.2	1381.7	1425.7	1434.5
67.5°	1161.3	1183.3	1264.9	1275.9	1282.5
70°	993.8	1022.5	1084.2	1126.0	1141.5
72.5°	841.8	868.2	934.3	987.2	996.0
75°	687.5	725.0	799.9	846.2	945.3
77.5°	546.5	592.8	663.3	718.4	738.2
80°	409.9	460.6	546.5	588.4	597.2
82.5°	284.3	350.4	425.3	487.0	502.4
85°	182.9	249.0	334.9	379.0	390.0
87.5°	97.0	167.5	251.2	304.1	317.3
90°	35.3	99.2	189.5	240.2	251.2
92.5°	30.9	70.5	143.2	187.3	198.3
95°	28.6	68.3	116.8	156.5	163.1
97.5°	33.1	59.5	103.6	123.4	130.0
100°	39.7	52.9	99.2	119.0	125.6
102.5°	46.3	48.5	90.3	108.0	108.0
105°	55.1	52.9	79.3	125.6	116.8
107.5°	61.7	70.5	77.1	92.6	101.4
110°	70.5	77.1	68.3	88.1	90.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	77.1	85.9	68.3	85.9	85.9
115°	81.5	90.3	68.3	79.3	83.7
117.5°	88.1	92.6	85.9	77.1	77.1
120°	94.8	94.8	105.8	74.9	74.9
122.5°	99.2	99.2	112.4	83.7	74.9
125°	103.6	103.6	123.4	105.8	88.1
127.5°	108.0	108.0	127.8	121.2	110.2
130°	112.4	110.2	132.2	130.0	123.4
132.5°	116.8	114.6	132.2	136.6	132.2
135°	121.2	119.0	130.0	145.4	141.0
137.5°	123.4	123.4	127.8	147.6	147.6
140°	127.8	127.8	127.8	145.4	152.0
142.5°	130.0	132.2	130.0	141.0	147.6
145°	132.2	136.6	130.0	136.6	143.2
147.5°	134.4	141.0	130.0	136.6	136.6
150°	138.8	143.2	132.2	134.4	136.6
152.5°	138.8	147.6	136.6	134.4	134.4
155°	141.0	149.8	141.0	134.4	134.4
157.5°	143.2	149.8	143.2	136.6	134.4
160°	143.2	152.0	147.6	141.0	136.6
162.5°	145.4	152.0	152.0	145.4	141.0
165°	145.4	149.8	154.3	149.8	145.4
167.5°	145.4	149.8	154.3	152.0	147.6
170°	147.6	149.8	152.0	152.0	147.6
172.5°	147.6	147.6	149.8	149.8	147.6
175°	147.6	147.6	147.6	147.6	143.2
177.5°	147.6	147.6	147.6	145.4	141.0
180°	145.4	145.4	145.4	145.4	145.4

(END OF REPORT)