

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-CL-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 (P34177)
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-CL-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

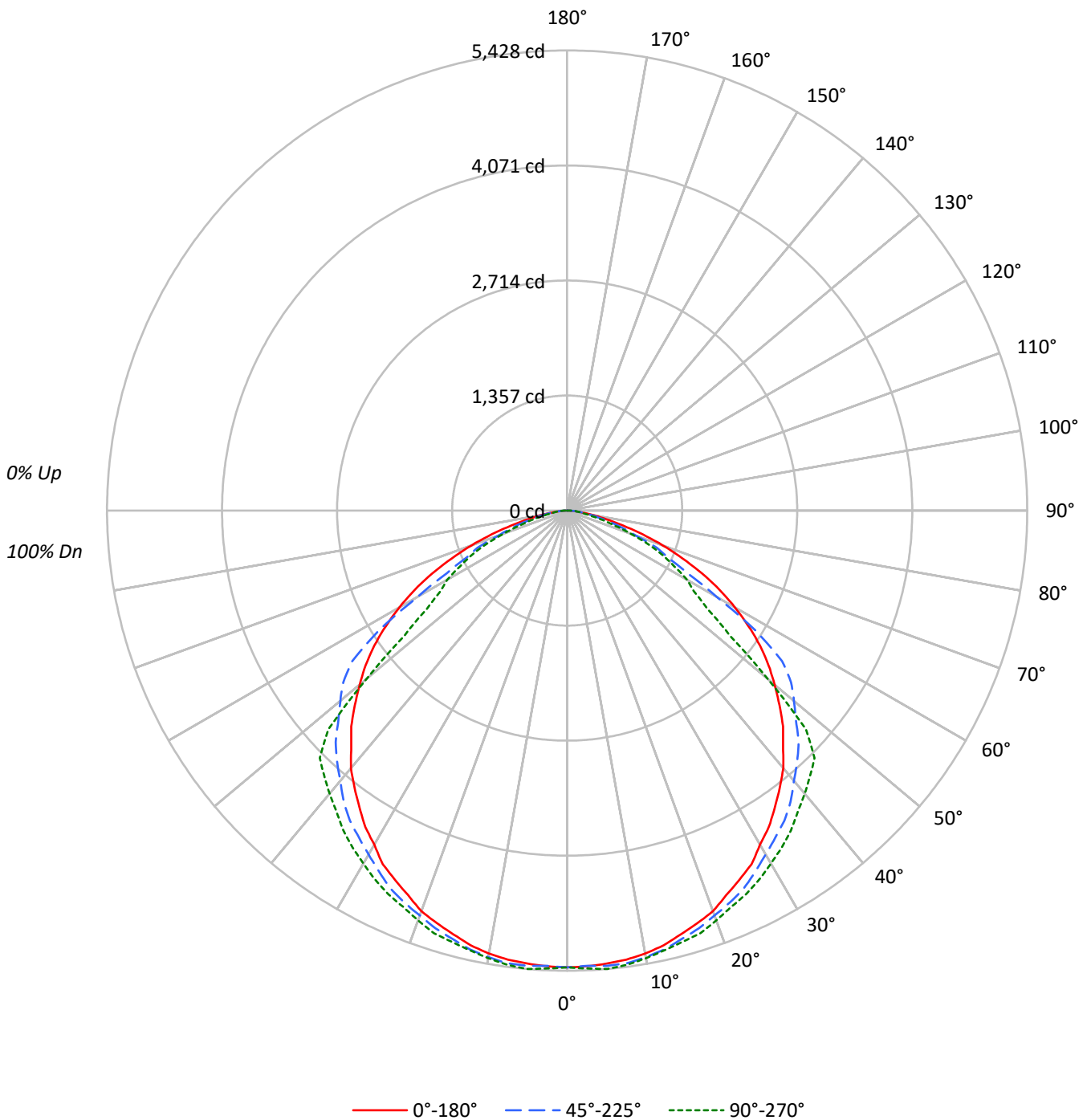
Lumens per Lamp: N/A
Luminaire Lumens: 14593.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	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°	15819	15819	15819
5°	15774	15755	15844
10°	15745	15683	15676
15°	15625	15503	15549
20°	15568	15352	15453
25°	15384	15272	15385
30°	15206	15055	15330
35°	15046	15012	15326
40°	14889	14775	15306
45°	14583	14643	15448
50°	14168	14333	12494
55°	13716	13955	8938
60°	12878	10290	8072
65°	11587	7536	7015
70°	9657	5902	5274
75°	7079	4356	3519
80°	4516	3040	2200
85°	2242	1809	1644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.5	3.5
10°-20°	1480.5	10.1
20°-30°	2266.6	15.5
30°-40°	2789.9	19.1
40°-50°	2957.0	20.3
50°-60°	2374.8	16.3
60°-70°	1476.0	10.1
70°-80°	607.4	4.2
80°-90°	127.3	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°	4260.5	29.2
0°-40°	7050.5	48.3
0°-60°	12382.3	84.9
0°-90°	14593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14593.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5389	5389	5389	5389	5389	
5°	5364	5378	5391	5419	5428	510
15°	5176	5248	5231	5266	5266	1463
25°	4805	4856	4924	4978	4992	2217
35°	4272	4377	4467	4579	4603	2675
45°	3600	3680	3862	4046	4127	2770
55°	2776	2898	3096	2209	2018	2470
65°	1758	1882	1306	1240	1246	1732
75°	682	628	520	465	437	748
85°	86	105	112	112	110	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5388.6	5388.6	5388.6	5388.6	5388.6
2.5°	5379.9	5386.4	5375.5	5399.6	5406.2
5°	5364.5	5377.7	5390.8	5419.4	5428.1
7.5°	5342.6	5371.1	5386.4	5404.0	5404.0
10°	5305.3	5349.1	5349.1	5355.7	5360.1
12.5°	5252.6	5311.8	5300.9	5305.3	5311.8
15°	5175.8	5248.2	5230.7	5265.8	5265.8
17.5°	5103.4	5164.8	5167.0	5210.9	5226.3
20°	5028.8	5079.3	5083.7	5147.3	5142.9
22.5°	4908.1	4984.9	5006.9	5042.0	5059.5
25°	4805.0	4855.5	4923.5	4978.3	4991.5
27.5°	4706.3	4748.0	4802.8	4897.2	4908.1
30°	4550.5	4638.3	4684.3	4809.4	4807.2
32.5°	4427.6	4506.6	4572.4	4693.1	4710.7
35°	4271.9	4377.2	4467.1	4579.0	4603.2
37.5°	4120.5	4217.0	4328.9	4438.6	4471.5
40°	3966.9	4054.6	4162.2	4293.8	4359.6
42.5°	3769.4	3876.9	4017.3	4168.7	4243.3
45°	3600.5	3679.5	3861.6	4045.9	4127.0
47.5°	3396.4	3499.5	3659.7	3894.5	3819.9
50°	3194.6	3313.0	3493.0	3528.1	3091.4
52.5°	2994.9	3113.4	3330.6	2790.9	2417.9
55°	2775.5	2898.4	3095.8	2209.4	2018.5
57.5°	2536.3	2652.6	2635.1	1834.2	1768.4
60°	2288.4	2402.5	2040.5	1606.1	1634.6
62.5°	2031.7	2154.6	1601.7	1467.8	1424.0
65°	1757.5	1882.5	1305.5	1239.7	1246.2
67.5°	1472.2	1577.5	1145.3	1057.5	1035.6
70°	1202.4	1233.1	866.7	842.5	798.6
72.5°	932.5	893.0	688.9	636.3	590.2
75°	682.4	627.5	520.0	465.1	436.6
77.5°	473.9	434.4	375.2	394.9	291.8
80°	305.0	283.0	276.5	219.4	210.6
82.5°	179.9	177.7	171.1	158.0	153.6
85°	85.6	105.3	111.9	111.9	109.7
87.5°	30.7	52.7	70.2	74.6	79.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)