

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-LD5-7-N-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-7-N-TWB-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

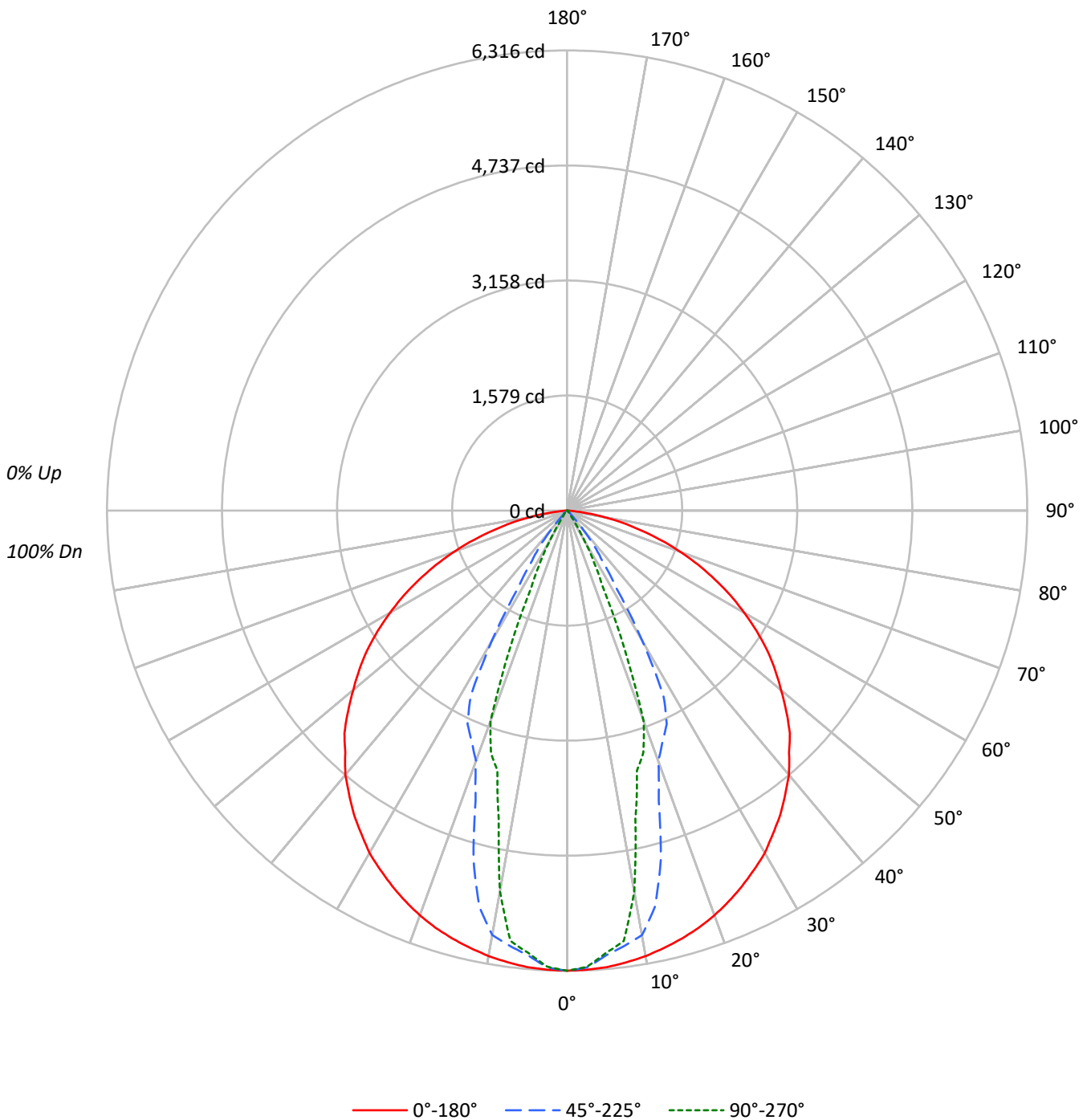
Lumens per Lamp: N/A
Luminaire Lumens: 6353.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 50.4
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18543	18543	18543
5°	18494	17908	17793
10°	18427	17342	15505
15°	18361	14715	10918
20°	18302	11046	9231
25°	18197	10035	3584
30°	18131	6641	1528
35°	17959	2826	338
40°	17773	1246	241
45°	17512	298	112
50°	17002	183	60
55°	16587	116	62
60°	15796	105	64
65°	14750	109	67
70°	13259	115	72
75°	10889	133	80
80°	7726	153	73
85°	2473	160	90



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.2	9.1
10°-20°	1384.8	21.8
20°-30°	1514.2	23.8
30°-40°	1095.8	17.2
40°-50°	817.8	12.9
50°-60°	477.5	7.5
60°-70°	296.9	4.7
70°-80°	154.8	2.4
80°-90°	30.9	0.5
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°	3479.2	54.8
0°-40°	4575.1	72.0
0°-60°	5870.4	92.4
0°-90°	6353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6316	6316	6316	6316	6316	
5°	6290	6267	6128	6109	6096	598
15°	6082	5868	4965	3882	3697	1717
25°	5683	4824	3235	1687	1163	2622
35°	5099	3110	841	182	101	3188
45°	4324	2033	78	54	30	3320
55°	3356	394	26	30	14	2988
65°	2237	33	19	18	12	2212
75°	1050	20	16	13	10	1125
85°	94	13	10	9	6	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6316.4	6316.4	6316.4	6316.4	6316.4
2.5°	6306.5	6314.4	6276.7	6276.7	6265.7
5°	6289.6	6266.7	6127.6	6108.7	6095.8
7.5°	6252.8	6163.4	6027.2	6002.3	5959.6
10°	6209.1	6052.0	5914.9	5561.0	5301.6
12.5°	6147.5	5959.6	5571.0	4694.3	4334.5
15°	6081.9	5868.2	4964.7	3882.3	3697.4
17.5°	6004.3	5746.9	4176.5	3560.3	3480.7
20°	5911.9	5550.1	3657.7	3338.6	3072.2
22.5°	5803.6	5245.0	3423.1	2775.1	2056.4
25°	5683.3	4824.5	3235.2	1686.7	1162.9
27.5°	5557.1	4327.6	2863.5	1024.7	794.2
30°	5425.9	3816.7	2066.4	734.5	479.1
32.5°	5257.9	3399.2	1253.3	413.5	213.7
35°	5098.9	3110.0	840.9	181.9	101.4
37.5°	4915.0	2910.2	614.2	96.4	71.6
40°	4735.1	2715.4	350.9	72.6	68.6
42.5°	4508.5	2472.9	148.1	68.6	48.7
45°	4323.6	2032.6	78.5	53.7	29.8
47.5°	4079.1	1391.5	52.7	41.7	18.9
50°	3833.6	859.7	44.7	32.8	14.9
52.5°	3600.0	569.5	32.8	30.8	13.9
55°	3356.5	393.6	25.8	29.8	13.9
57.5°	3086.2	193.8	21.9	28.8	12.9
60°	2806.9	75.5	20.9	27.8	12.9
62.5°	2530.5	41.7	19.9	22.9	11.9
65°	2237.3	32.8	18.9	17.9	11.9
67.5°	1947.1	26.8	17.9	16.9	11.9
70°	1650.9	23.9	16.9	14.9	10.9
72.5°	1348.8	21.9	15.9	14.9	9.9
75°	1049.6	19.9	15.9	12.9	9.9
77.5°	785.2	18.9	14.9	12.9	8.0
80°	521.8	16.9	13.9	10.9	7.0
82.5°	288.2	15.9	11.9	9.9	7.0
85°	94.4	12.9	9.9	8.9	6.0
87.5°	14.9	8.9	8.0	8.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)