

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L835-CD2-U
Description: Metalux 4' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

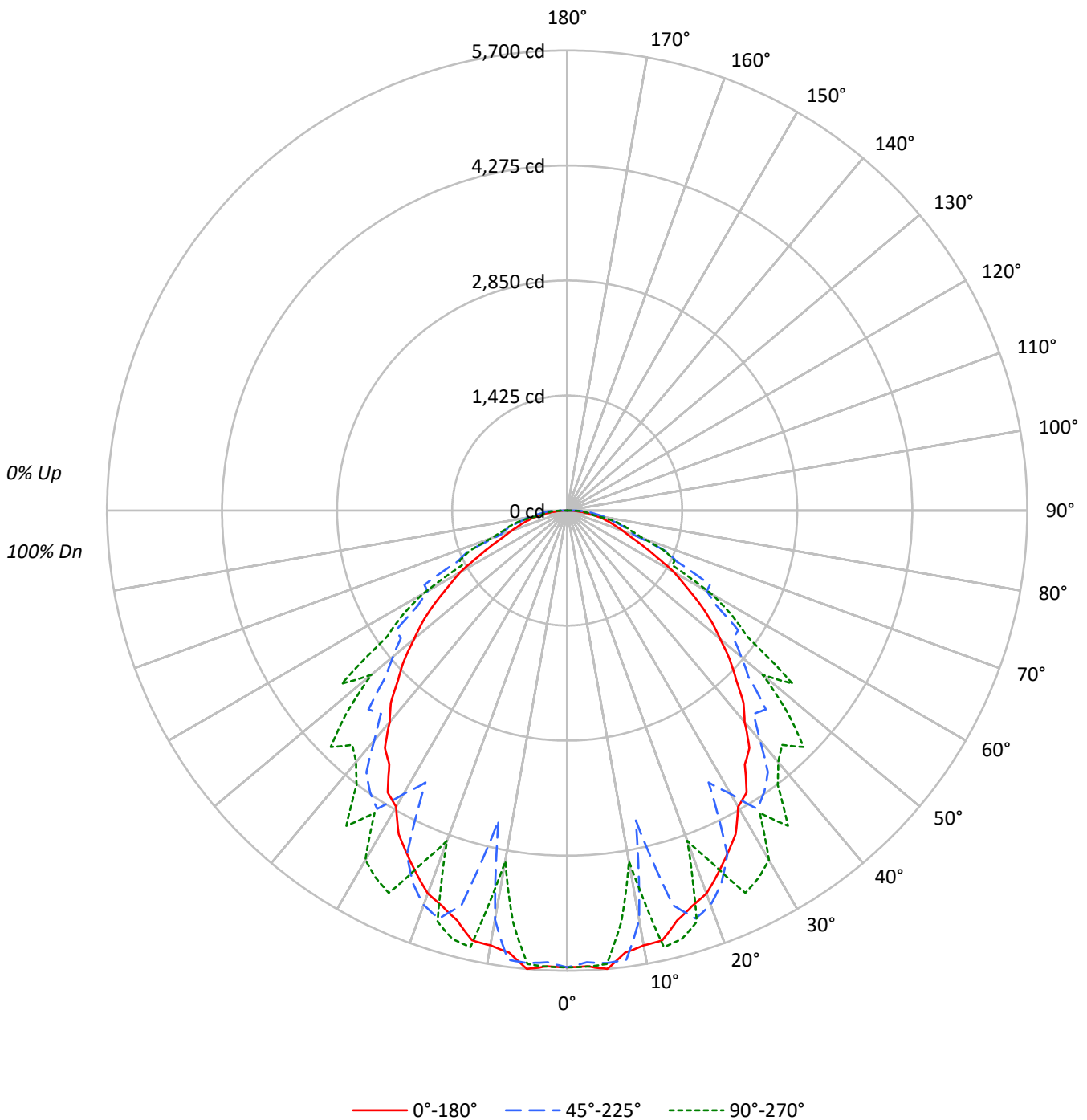
Lumens per Lamp: N/A
Luminaire Lumens: 13748.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	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°	16610	16610	16610
5°	16760	16440	16459
10°	16232	15097	12897
15°	15876	14995	16222
20°	15622	15695	13072
25°	15026	14564	16108
30°	14156	13023	15938
35°	13523	14304	15873
40°	12838	13185	14273
45°	11987	13203	15505
50°	10975	11550	12777
55°	9855	11650	12047
60°	8606	10057	10184
65°	6870	8663	8263
70°	5868	6006	6564
75°	5508	5735	5836
80°	4970	5355	3460
85°	4367	4752	3289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.0	3.8
10°-20°	1447.8	10.5
20°-30°	2093.0	15.2
30°-40°	2621.4	19.1
40°-50°	2551.7	18.6
50°-60°	2184.2	15.9
60°-70°	1355.0	9.9
70°-80°	705.1	5.1
80°-90°	273.9	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°	4056.8	29.5
0°-40°	6678.2	48.6
0°-60°	11414.1	83.0
0°-90°	13748.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5658	5658	5658	5658	5658	
5°	5700	5682	5625	5603	5638	532
15°	5259	5279	5059	5522	5494	1489
25°	4693	3890	4695	4827	5226	2157
35°	3839	4002	4256	4221	4768	2426
45°	2960	2657	3482	3561	4142	2289
55°	1994	2183	2584	3085	2720	1784
65°	1042	1169	1501	1270	1468	1058
75°	531	616	684	735	724	562
85°	167	222	294	338	219	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5658.2	5658.2	5658.2	5658.2	5658.2
2.5°	5651.6	5627.5	5601.2	5647.2	5656.0
5°	5699.9	5682.3	5625.3	5603.4	5638.5
7.5°	5522.2	5559.5	5612.1	5326.9	5142.6
10°	5469.5	5449.8	5149.2	3964.5	4409.9
12.5°	5452.0	5427.8	3931.6	5511.2	5537.5
15°	5258.9	5278.7	5059.3	5522.2	5493.7
17.5°	5140.4	4868.4	5298.4	5390.5	5340.1
20°	5046.1	4243.1	5197.5	4951.8	4350.6
22.5°	4872.8	3617.8	4995.6	3973.3	4745.5
25°	4692.9	3889.9	4695.1	4826.7	5226.0
27.5°	4519.5	4407.7	3797.7	5037.3	5131.7
30°	4236.5	4370.4	4052.2	4932.0	4997.8
32.5°	4137.8	4172.9	4381.3	4657.8	4438.4
35°	3839.4	4001.8	4256.3	4221.2	4767.5
37.5°	3707.8	3753.9	4085.1	4445.0	4282.6
40°	3420.4	3490.6	3714.4	3927.2	4065.4
42.5°	3233.9	2999.1	3413.8	3806.5	3938.2
45°	2959.6	2656.9	3481.8	3560.8	4142.2
47.5°	2735.9	2639.3	3047.4	3705.6	3705.6
50°	2474.8	2602.0	2814.8	3310.7	3161.5
52.5°	2251.0	2424.3	2597.6	2878.5	3521.3
55°	1994.3	2183.0	2584.5	3084.7	2720.5
57.5°	1742.0	1902.2	2194.0	2362.9	2426.5
60°	1529.2	1685.0	1994.3	2123.7	2062.3
62.5°	1254.9	1452.4	1994.3	1674.0	1467.8
65°	1042.1	1169.4	1500.7	1270.3	1467.8
67.5°	855.6	987.3	1333.9	1226.4	1307.6
70°	730.6	824.9	882.0	1097.0	993.9
72.5°	625.3	693.3	807.4	829.3	824.9
75°	530.9	616.5	684.5	735.0	724.0
77.5°	441.0	561.7	563.8	675.7	588.0
80°	335.7	383.9	487.1	441.0	331.3
82.5°	245.7	300.6	370.8	381.7	291.8
85°	166.7	221.6	294.0	337.9	219.4
87.5°	76.8	151.4	239.1	302.8	199.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)