

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: **8ILED-LD5-18-W-TWBWG-UNV-L850-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: 8ILED-LD5-18-W-TWBWG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

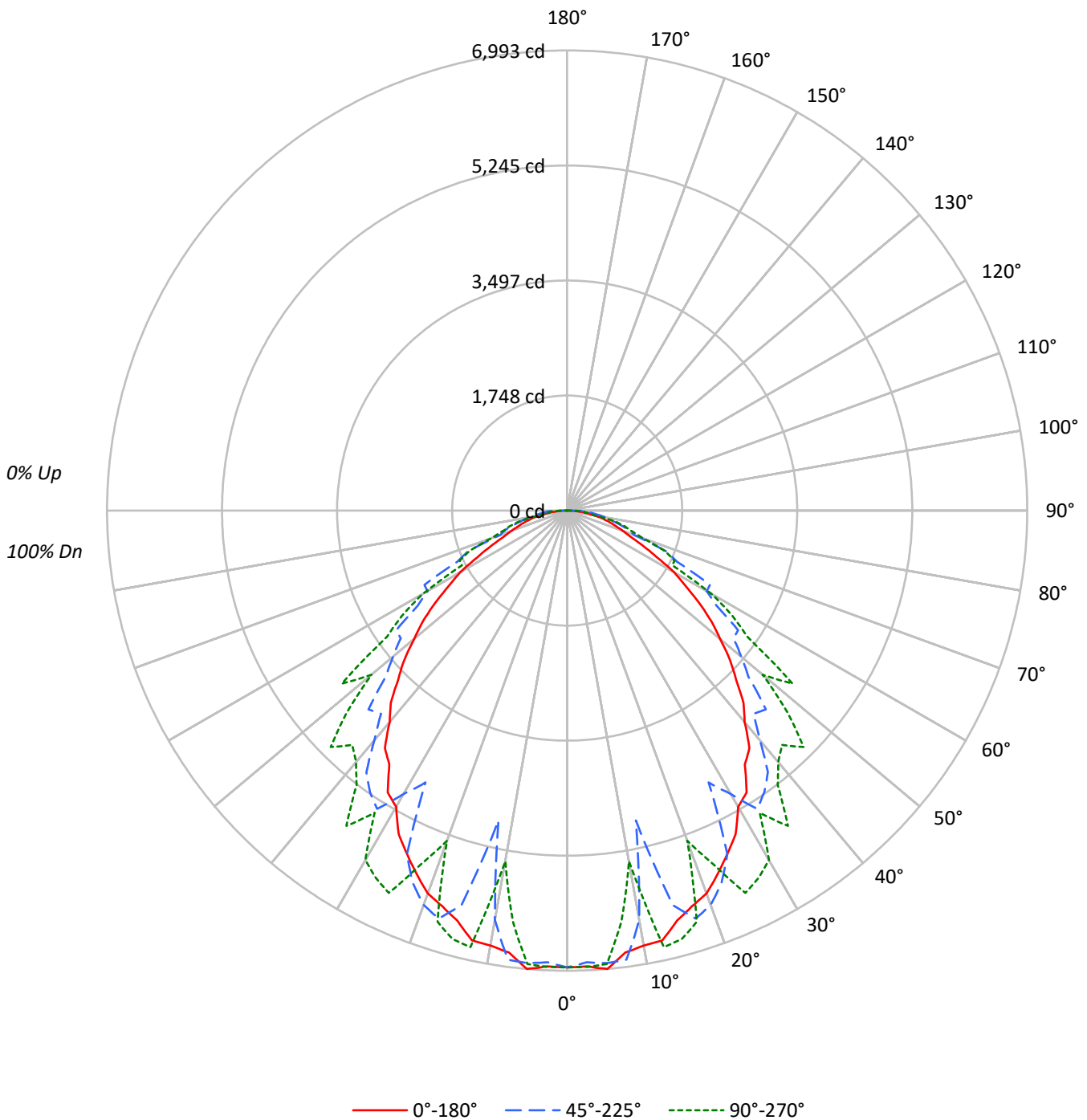
Lumens per Lamp: N/A
Luminaire Lumens: 16867.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
Input Voltage (V):
Input Current (Ain): 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°	10189	10189	10189
5°	10292	10093	10096
10°	9980	9275	7912
15°	9772	9220	9951
20°	9626	9658	8019
25°	9270	8969	9881
30°	8746	8028	9777
35°	8367	8826	9737
40°	7957	8144	8755
45°	7444	8165	9511
50°	6831	7153	7838
55°	6152	7227	7390
60°	5391	6252	6247
65°	4325	5399	5068
70°	3719	3757	4026
75°	3530	3606	3580
80°	3250	3396	2122
85°	3015	3064	2018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.1	3.8
10°-20°	1776.2	10.5
20°-30°	2567.9	15.2
30°-40°	3216.1	19.1
40°-50°	3130.6	18.6
50°-60°	2679.7	15.9
60°-70°	1662.4	9.9
70°-80°	865.0	5.1
80°-90°	336.0	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°	4977.2	29.5
0°-40°	8193.2	48.6
0°-60°	14003.6	83.0
0°-90°	16867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16867.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6942	6942	6942	6942	6942	
5°	6993	6972	6902	6875	6918	653
15°	6452	6476	6207	6775	6740	1826
25°	5758	4772	5760	5922	6412	2646
35°	4710	4910	5222	5179	5849	2977
45°	3631	3260	4272	4369	5082	2809
55°	2447	2678	3171	3784	3338	2188
65°	1279	1435	1841	1558	1801	1298
75°	651	756	840	902	888	689
85°	205	272	361	414	269	219
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6941.9	6941.9	6941.9	6941.9	6941.9
2.5°	6933.8	6904.2	6871.9	6928.4	6939.2
5°	6993.0	6971.5	6901.5	6874.6	6917.7
7.5°	6775.0	6820.8	6885.4	6535.4	6309.3
10°	6710.4	6686.2	6317.4	4863.9	5410.3
12.5°	6688.9	6659.3	4823.5	6761.5	6793.8
15°	6452.0	6476.2	6207.1	6775.0	6740.0
17.5°	6306.6	5972.9	6500.4	6613.5	6551.6
20°	6190.9	5205.7	6376.6	6075.2	5337.6
22.5°	5978.3	4438.6	6129.0	4874.7	5822.1
25°	5757.5	4772.4	5760.2	5921.7	6411.6
27.5°	5544.9	5407.6	4659.3	6180.1	6295.9
30°	5197.7	5361.9	4971.6	6050.9	6131.7
32.5°	5076.5	5119.6	5375.3	5714.5	5445.3
35°	4710.5	4909.7	5221.9	5178.8	5849.1
37.5°	4549.0	4605.5	5011.9	5453.4	5254.2
40°	4196.4	4282.5	4557.0	4818.1	4987.7
42.5°	3967.6	3679.5	4188.3	4670.1	4831.6
45°	3631.1	3259.6	4271.7	4368.6	5081.9
47.5°	3356.5	3238.1	3738.8	4546.3	4546.3
50°	3036.2	3192.4	3453.4	4061.8	3878.7
52.5°	2761.7	2974.3	3187.0	3531.5	4320.2
55°	2446.8	2678.2	3170.8	3784.5	3337.7
57.5°	2137.2	2333.7	2691.7	2899.0	2977.0
60°	1876.1	2067.2	2446.8	2605.6	2530.2
62.5°	1539.7	1781.9	2446.8	2053.8	1800.7
65°	1278.6	1434.7	1841.1	1558.5	1800.7
67.5°	1049.8	1211.3	1636.6	1504.7	1604.3
70°	896.3	1012.1	1082.1	1345.8	1219.3
72.5°	767.1	850.6	990.5	1017.5	1012.1
75°	651.4	756.4	839.8	901.7	888.3
77.5°	541.0	689.1	691.8	829.0	721.4
80°	411.8	471.0	597.6	541.0	406.4
82.5°	301.5	368.8	454.9	468.4	358.0
85°	204.6	271.9	360.7	414.5	269.2
87.5°	94.2	185.7	293.4	371.5	244.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)