

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-LD5-22-W-TWBWG-UNV-L840-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-LD5-22-W-TWBWG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

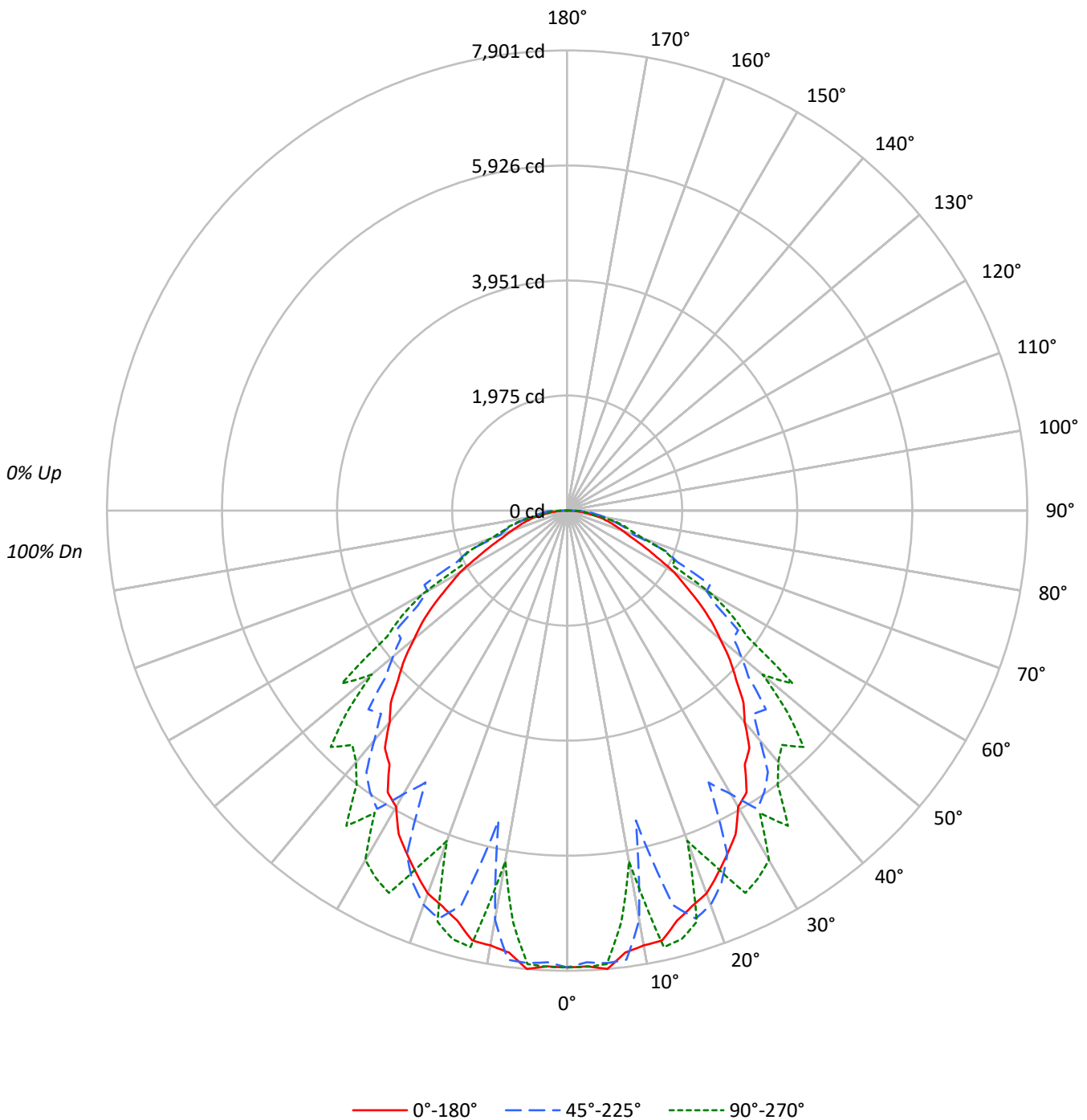
Lumens per Lamp: N/A
Luminaire Lumens: 19056.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 167.7
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°	11512	11512	11512
5°	11628	11403	11406
10°	11275	10479	8938
15°	11040	10416	11243
20°	10876	10912	9060
25°	10474	10133	11164
30°	9881	9070	11046
35°	9453	9971	11001
40°	8990	9201	9892
45°	8410	9225	10746
50°	7718	8081	8855
55°	6950	8165	8349
60°	6090	7063	7058
65°	4886	6100	5726
70°	4202	4244	4549
75°	3987	4074	4044
80°	3673	3836	2398
85°	3405	3461	2279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.2	3.8
10°-20°	2006.7	10.5
20°-30°	2901.1	15.2
30°-40°	3633.4	19.1
40°-50°	3536.9	18.6
50°-60°	3027.5	15.9
60°-70°	1878.1	9.9
70°-80°	977.3	5.1
80°-90°	379.6	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°	5623.1	29.5
0°-40°	9256.5	48.6
0°-60°	15821.0	83.0
0°-90°	19056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7843	7843	7843	7843	7843	
5°	7901	7876	7797	7767	7815	738
15°	7289	7317	7013	7654	7615	2063
25°	6505	5392	6508	6690	7244	2989
35°	5322	5547	5900	5851	6608	3363
45°	4102	3683	4826	4936	5742	3173
55°	2764	3026	3582	4276	3771	2472
65°	1444	1621	2080	1761	2034	1466
75°	736	854	949	1019	1004	779
85°	231	307	408	468	304	248
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7842.8	7842.8	7842.8	7842.8	7842.8
2.5°	7833.7	7800.2	7763.7	7827.6	7839.8
5°	7900.6	7876.3	7797.2	7766.8	7815.4
7.5°	7654.3	7706.0	7778.9	7383.6	7128.2
10°	7581.3	7553.9	7137.3	5495.1	6112.5
12.5°	7556.9	7523.5	5449.5	7639.1	7675.5
15°	7289.3	7316.7	7012.6	7654.3	7614.7
17.5°	7125.1	6748.0	7344.1	7471.8	7401.9
20°	6994.4	5881.3	7204.2	6863.6	6030.4
22.5°	6754.1	5014.7	6924.4	5507.3	6577.7
25°	6504.8	5391.7	6507.8	6690.3	7243.7
27.5°	6264.5	6109.4	5264.0	6982.2	7113.0
30°	5872.2	6057.7	5616.8	6836.2	6927.5
32.5°	5735.4	5784.0	6072.9	6456.1	6152.0
35°	5321.8	5546.8	5899.6	5850.9	6608.1
37.5°	5139.3	5203.2	5662.4	6161.1	5936.1
40°	4741.0	4838.3	5148.5	5443.4	5635.0
42.5°	4482.5	4157.1	4731.8	5276.2	5458.6
45°	4102.3	3682.7	4826.1	4935.6	5741.5
47.5°	3792.2	3658.4	4224.0	5136.3	5136.3
50°	3430.3	3606.7	3901.6	4588.9	4382.1
52.5°	3120.1	3360.3	3600.6	3989.8	4880.8
55°	2764.3	3025.8	3582.3	4275.7	3770.9
57.5°	2414.6	2636.6	3041.0	3275.2	3363.4
60°	2119.6	2335.5	2764.3	2943.7	2858.6
62.5°	1739.5	2013.2	2764.3	2320.3	2034.4
65°	1444.5	1620.9	2080.1	1760.8	2034.4
67.5°	1186.0	1368.5	1848.9	1699.9	1812.5
70°	1012.7	1143.4	1222.5	1520.5	1377.6
72.5°	866.7	961.0	1119.1	1149.5	1143.4
75°	735.9	854.5	948.8	1018.7	1003.5
77.5°	611.2	778.5	781.5	936.6	815.0
80°	465.3	532.2	675.1	611.2	459.2
82.5°	340.6	416.6	513.9	529.1	404.5
85°	231.1	307.1	407.5	468.3	304.1
87.5°	106.4	209.8	331.5	419.7	276.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)