

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-LD5-14-W-WG-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 (P34174)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-14-W-WG-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

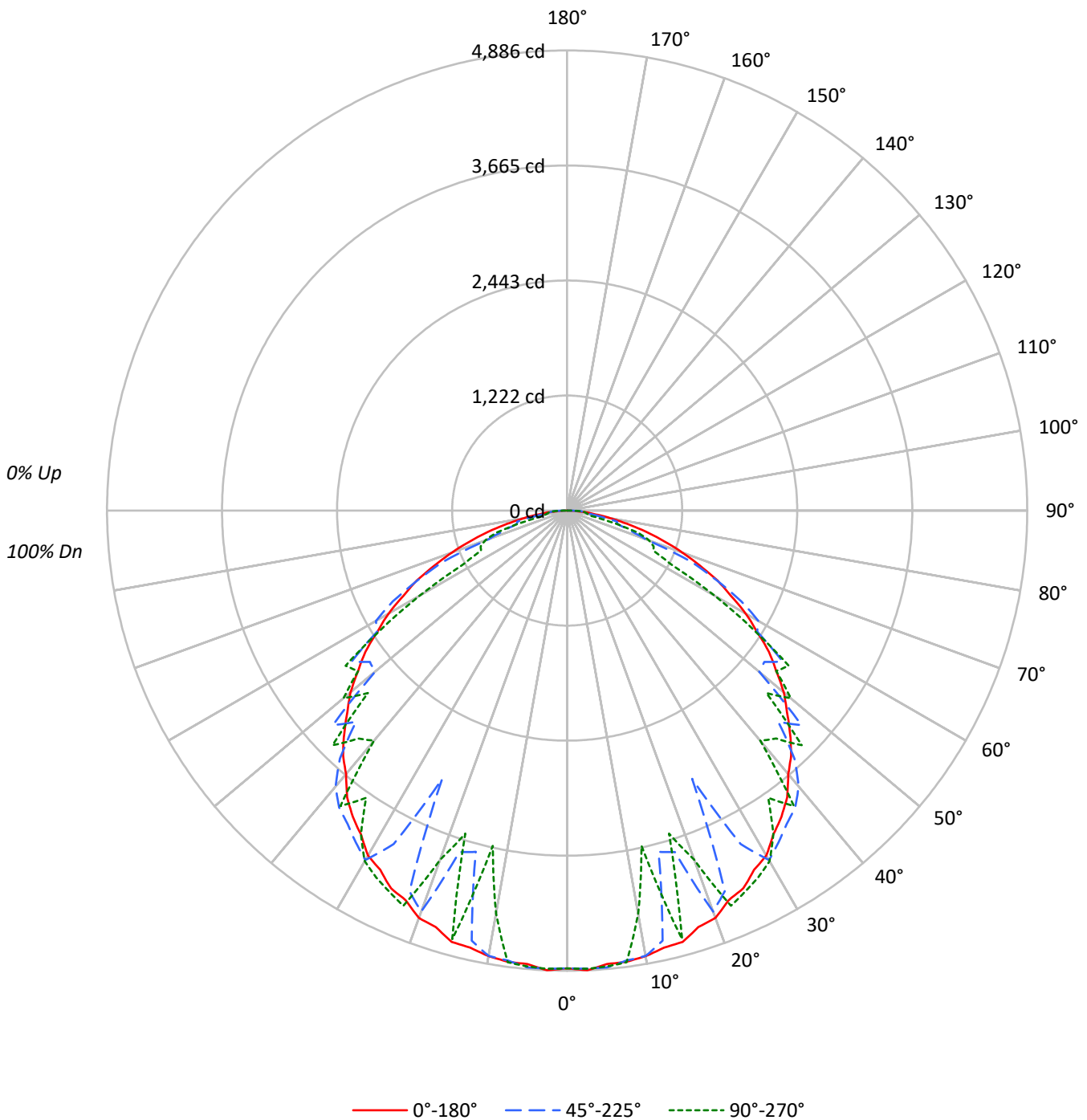
Lumens per Lamp: N/A
Luminaire Lumens: 13364.0 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7134	7134	7134
5°	7113	7119	7090
10°	7144	7050	6358
15°	7181	5572	6957
20°	7157	6862	5929
25°	7126	4892	6884
30°	7116	6920	6854
35°	7048	6867	6196
40°	6925	6837	5596
45°	6864	6060	6594
50°	6757	5514	6265
55°	6580	6365	6360
60°	6299	5990	4475
65°	5972	5120	2841
70°	5385	3065	3056
75°	4688	2368	2097
80°	3707	1971	1211
85°	2815	1539	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.4	3.4
10°-20°	1229.2	9.2
20°-30°	1906.0	14.3
30°-40°	2443.6	18.3
40°-50°	2502.5	18.7
50°-60°	2373.0	17.8
60°-70°	1519.9	11.4
70°-80°	738.6	5.5
80°-90°	190.7	1.4
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°	3595.6	26.9
0°-40°	6039.2	45.2
0°-60°	10914.7	81.7
0°-90°	13364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4860	4860	4860	4860	4860	
5°	4833	4846	4868	4880	4858	461
15°	4741	4741	3751	4412	4712	1332
25°	4426	3823	3141	4494	4466	2034
35°	3968	3993	4063	3958	3722	2478
45°	3348	3354	3171	3192	3523	2580
55°	2617	2699	2792	2693	2872	2325
65°	1766	1725	1746	1134	1009	1730
75°	865	967	552	668	520	915
85°	191	168	181	191	187	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4860.1	4860.1	4860.1	4860.1	4860.1
2.5°	4885.5	4889.4	4867.9	4860.1	4869.9
5°	4832.9	4846.5	4867.9	4879.6	4858.2
7.5°	4830.9	4836.7	4819.2	4883.5	4836.7
10°	4803.6	4836.7	4801.7	4632.1	4347.6
12.5°	4753.0	4758.8	4678.9	3371.3	3648.0
15°	4741.3	4741.3	3751.3	4411.9	4712.0
17.5°	4636.0	4661.4	3802.0	4634.1	3595.4
20°	4602.9	4587.3	4530.8	3281.7	3946.2
22.5°	4478.2	4371.0	4374.9	4560.0	4542.5
25°	4425.6	3823.4	3141.4	4493.8	4466.5
27.5°	4300.8	3205.7	3991.0	4396.3	4390.5
30°	4228.7	3334.3	4285.3	4316.4	4298.9
32.5°	4076.7	3827.3	4178.1	4244.3	4074.8
35°	3967.6	3992.9	4063.1	3957.9	3722.1
37.5°	3837.0	3663.6	3975.4	3609.0	3955.9
40°	3651.9	2854.9	3825.4	3872.1	3188.1
42.5°	3521.4	2794.5	3572.0	3004.9	3283.6
45°	3347.9	3353.8	3170.6	3192.0	3523.3
47.5°	3166.7	3240.7	3373.3	3390.8	2868.5
50°	3003.0	3075.1	2662.0	2874.4	3100.4
52.5°	2798.4	2899.7	2640.5	2967.9	2798.4
55°	2617.1	2699.0	2792.5	2693.1	2872.4
57.5°	2385.2	2515.8	2391.1	2644.4	2334.6
60°	2192.3	2190.4	2344.3	2356.0	1812.3
62.5°	1960.4	1944.8	2085.1	1580.4	1255.0
65°	1765.5	1724.6	1746.1	1134.2	1009.4
67.5°	1522.0	1350.5	1438.2	947.1	993.9
70°	1297.9	1290.1	882.8	656.7	925.6
72.5°	1075.7	1171.2	695.7	820.4	800.9
75°	865.2	966.6	551.5	668.4	520.3
77.5°	648.9	701.5	543.7	409.2	253.3
80°	469.6	331.3	346.9	231.9	231.9
82.5°	304.0	272.8	202.7	216.3	204.6
85°	191.0	167.6	181.2	191.0	187.1
87.5°	66.3	115.0	144.2	140.3	128.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)