

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-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 (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-L850-CD2-U
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

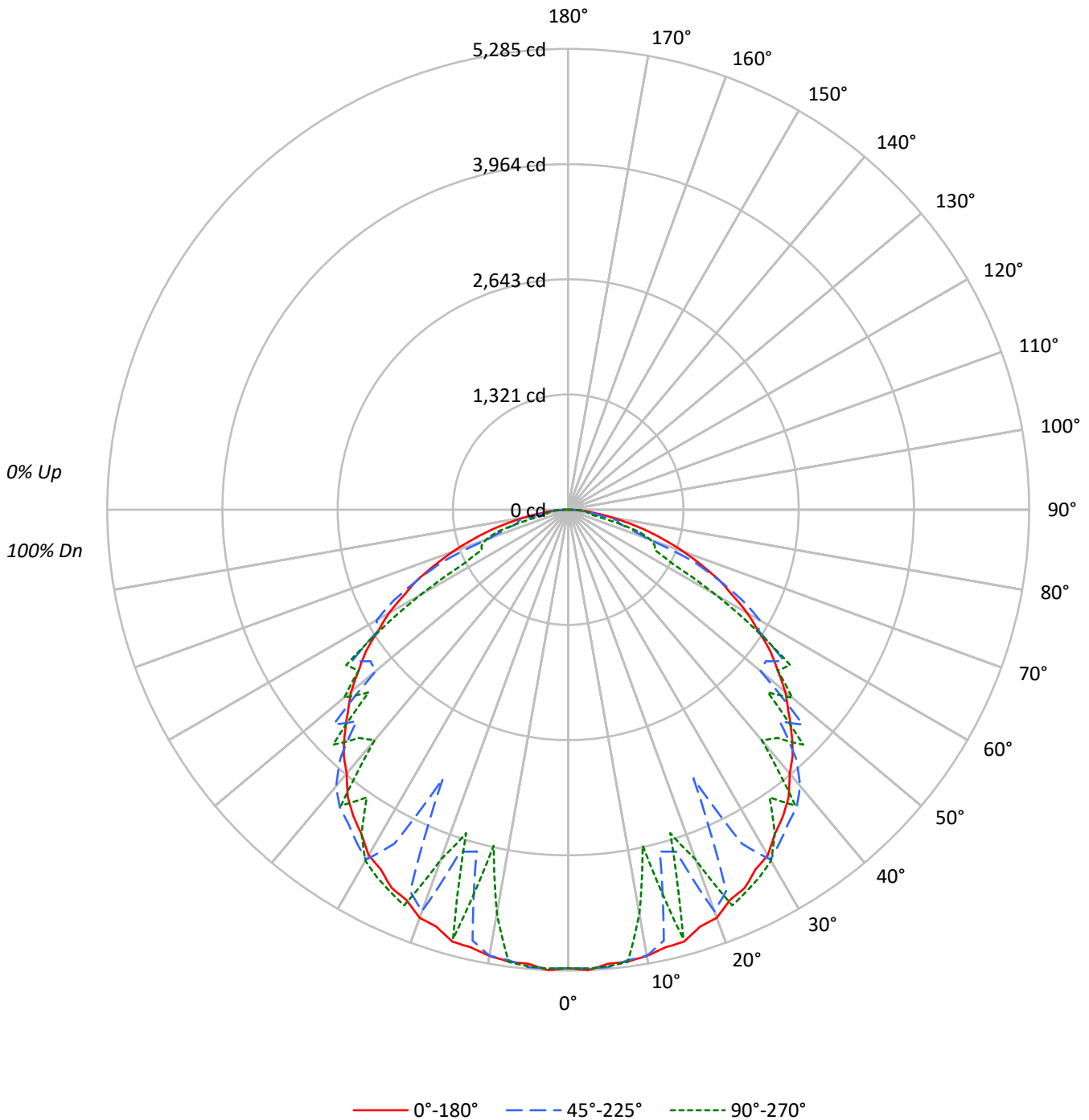
Lumens per Lamp: N/A
Luminaire Lumens: 14456.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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°	7717	7717	7717
5°	7694	7701	7670
10°	7727	7626	6877
15°	7767	6027	7525
20°	7742	7423	6413
25°	7708	5291	7446
30°	7697	7485	7415
35°	7624	7428	6702
40°	7491	7395	6054
45°	7425	6556	7133
50°	7309	5964	6777
55°	7118	6885	6879
60°	6814	6480	4840
65°	6460	5539	3073
70°	5825	3315	3306
75°	5071	2562	2268
80°	4010	2132	1310
85°	3044	1665	1517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	3.4
10°-20°	1329.7	9.2
20°-30°	2061.8	14.3
30°-40°	2643.3	18.3
40°-50°	2707.0	18.7
50°-60°	2566.9	17.8
60°-70°	1644.1	11.4
70°-80°	798.9	5.5
80°-90°	206.3	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°	3889.4	26.9
0°-40°	6532.7	45.2
0°-60°	11806.6	81.7
0°-90°	14456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5257	5257	5257	5257	5257	
5°	5228	5242	5266	5278	5255	499
15°	5129	5129	4058	4772	5097	1440
25°	4787	4136	3398	4861	4832	2200
35°	4292	4319	4395	4281	4026	2681
45°	3622	3628	3430	3453	3811	2791
55°	2831	2920	3021	2913	3107	2515
65°	1910	1866	1889	1227	1092	1871
75°	936	1046	597	723	563	990
85°	207	181	196	207	202	234
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5257.3	5257.3	5257.3	5257.3	5257.3
2.5°	5284.7	5288.9	5265.7	5257.3	5267.8
5°	5227.8	5242.5	5265.7	5278.3	5255.2
7.5°	5225.6	5232.0	5213.0	5282.6	5232.0
10°	5196.1	5232.0	5194.0	5010.6	4702.9
12.5°	5141.3	5147.7	5061.2	3646.8	3946.1
15°	5128.7	5128.7	4057.8	4772.4	5097.1
17.5°	5014.8	5042.3	4112.6	5012.7	3889.2
20°	4979.0	4962.1	4901.0	3549.8	4268.6
22.5°	4844.1	4728.2	4732.4	4932.6	4913.7
25°	4787.2	4135.8	3398.0	4861.0	4831.5
27.5°	4652.3	3467.6	4317.1	4755.6	4749.2
30°	4574.3	3606.7	4635.4	4669.1	4650.2
32.5°	4409.9	4140.0	4519.5	4591.1	4407.8
35°	4291.8	4319.2	4395.1	4281.3	4026.2
37.5°	4150.6	3963.0	4300.2	3904.0	4279.2
40°	3950.3	3088.2	4137.9	4188.5	3448.6
42.5°	3809.1	3022.8	3863.9	3250.5	3551.9
45°	3621.5	3627.8	3429.7	3452.8	3811.2
47.5°	3425.4	3505.5	3648.9	3667.9	3102.9
50°	3248.4	3326.4	2879.5	3109.2	3353.8
52.5°	3027.0	3136.7	2856.3	3210.4	3027.0
55°	2831.0	2919.5	3020.7	2913.2	3107.1
57.5°	2580.1	2721.4	2586.5	2860.5	2525.3
60°	2371.5	2369.4	2535.9	2548.5	1960.4
62.5°	2120.6	2103.7	2255.5	1709.6	1357.5
65°	1909.8	1865.5	1888.7	1226.8	1091.9
67.5°	1646.3	1460.8	1555.7	1024.5	1075.1
70°	1403.9	1395.5	954.9	710.4	1001.3
72.5°	1163.6	1266.9	752.5	887.5	866.4
75°	935.9	1045.6	596.6	723.0	562.8
77.5°	702.0	758.9	588.1	442.7	274.0
80°	508.0	358.4	375.2	250.8	250.8
82.5°	328.8	295.1	219.2	234.0	221.3
85°	206.6	181.3	196.0	206.6	202.4
87.5°	71.7	124.4	156.0	151.8	139.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)