

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-LD5-28-W-WG-UNV-L850-CD4-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-LD5-28-W-WG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

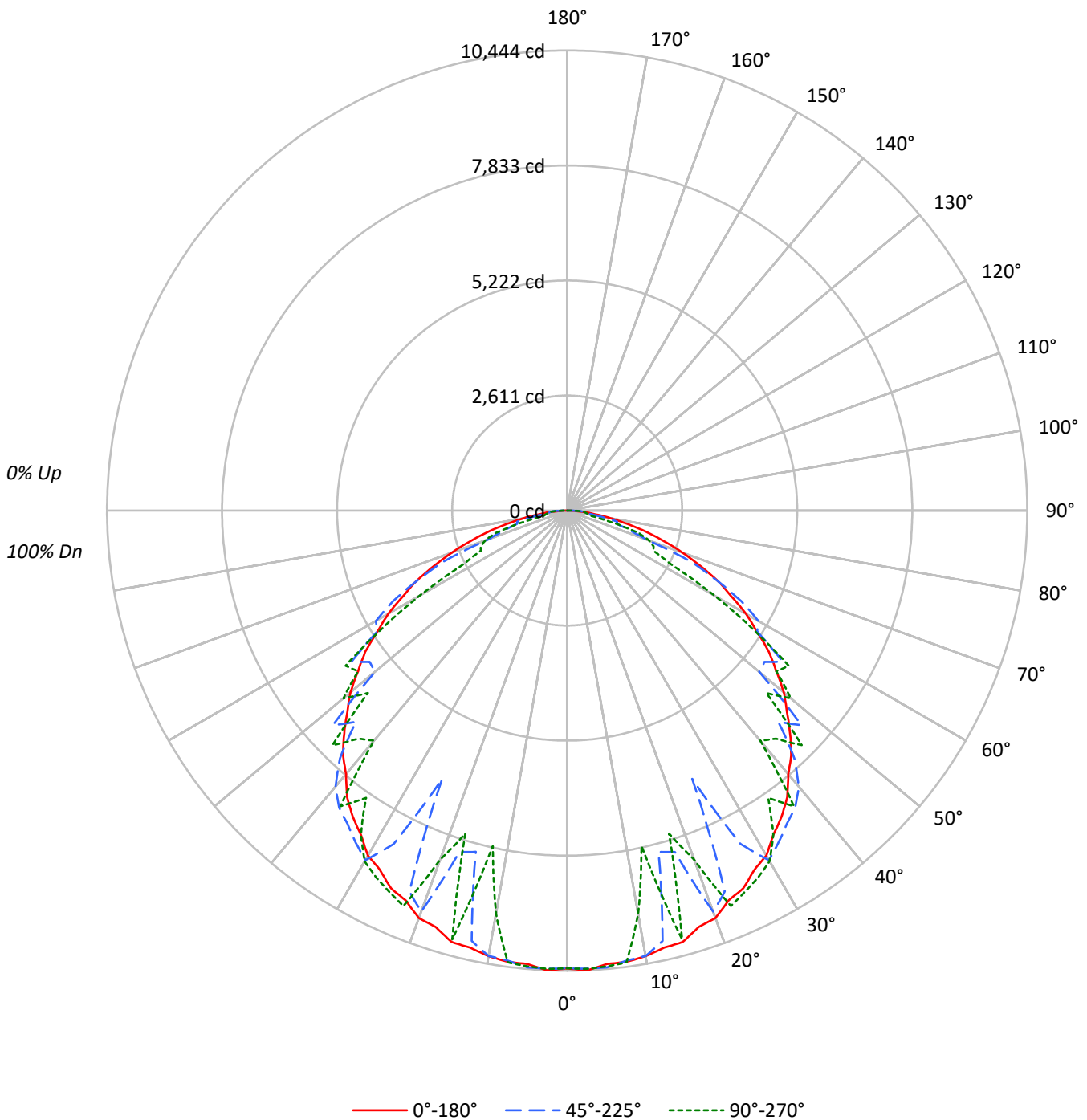
Lumens per Lamp: N/A
Luminaire Lumens: 28570.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
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°	15251	15251	15251
5°	15206	15219	15158
10°	15272	15071	13592
15°	15351	11912	14873
20°	15301	14671	12674
25°	15234	10457	14716
30°	15212	14793	14653
35°	15067	14681	13246
40°	14804	14615	11964
45°	14674	12956	14097
50°	14445	11787	13394
55°	14067	13607	13596
60°	13467	12806	9566
65°	12767	10946	6074
70°	11512	6551	6534
75°	10022	5062	4483
80°	7925	4214	2589
85°	6017	3291	2997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	984.2	3.4
10°-20°	2627.9	9.2
20°-30°	4074.8	14.3
30°-40°	5224.0	18.3
40°-50°	5349.9	18.7
50°-60°	5073.0	17.8
60°-70°	3249.4	11.4
70°-80°	1579.0	5.5
80°-90°	407.8	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°	7686.9	26.9
0°-40°	12910.9	45.2
0°-60°	23333.9	81.7
0°-90°	28570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10390	10390	10390	10390	10390	
5°	10332	10361	10407	10432	10386	986
15°	10136	10136	8020	9432	10074	2847
25°	9461	8174	6716	9607	9549	4348
35°	8482	8536	8686	8461	7957	5298
45°	7157	7170	6778	6824	7532	5516
55°	5595	5770	5970	5758	6141	4971
65°	3774	3687	3733	2425	2158	3698
75°	1850	2066	1179	1429	1112	1957
85°	408	358	387	408	400	463
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10390.2	10390.2	10390.2	10390.2	10390.2
2.5°	10444.3	10452.6	10406.8	10390.2	10411.0
5°	10331.8	10361.0	10406.8	10431.8	10386.0
7.5°	10327.7	10340.2	10302.7	10440.1	10340.2
10°	10269.3	10340.2	10265.2	9902.7	9294.5
12.5°	10161.0	10173.5	10002.7	7207.3	7798.9
15°	10136.0	10136.0	8019.7	9432.0	10073.5
17.5°	9911.1	9965.2	8128.0	9906.9	7686.4
20°	9840.2	9806.9	9686.1	7015.6	8436.3
22.5°	9573.6	9344.5	9352.8	9748.6	9711.1
25°	9461.1	8173.8	6715.7	9606.9	9548.6
27.5°	9194.5	6853.2	8532.1	9398.6	9386.1
30°	9040.3	7128.1	9161.2	9227.8	9190.3
32.5°	8715.4	8182.1	8932.0	9073.7	8711.2
35°	8482.1	8536.3	8686.2	8461.3	7957.2
37.5°	8203.0	7832.2	8498.8	7715.5	8457.1
40°	7807.2	6103.3	8178.0	8278.0	6815.7
42.5°	7528.1	5974.1	7636.4	6424.1	7019.8
45°	7157.3	7169.8	6778.2	6824.0	7532.2
47.5°	6769.8	6928.2	7211.4	7248.9	6132.4
50°	6419.9	6574.0	5690.8	6144.9	6628.2
52.5°	5982.5	6199.1	5645.0	6344.9	5982.5
55°	5595.0	5770.0	5970.0	5757.5	6140.8
57.5°	5099.3	5378.4	5111.8	5653.3	4990.9
60°	4686.8	4682.7	5011.8	5036.8	3874.4
62.5°	4191.1	4157.7	4457.7	3378.7	2682.9
65°	3774.5	3687.0	3732.8	2424.6	2158.0
67.5°	3253.7	2887.1	3074.6	2024.7	2124.7
70°	2774.6	2757.9	1887.2	1404.0	1978.9
72.5°	2299.7	2503.8	1487.3	1753.9	1712.3
75°	1849.7	2066.4	1179.0	1429.0	1112.3
77.5°	1387.3	1499.8	1162.3	874.9	541.6
80°	1004.0	708.2	741.6	495.8	495.8
82.5°	649.9	583.2	433.3	462.4	437.4
85°	408.3	358.3	387.4	408.3	399.9
87.5°	141.6	245.8	308.3	300.0	275.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)