

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-L840-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-L840-CD4-U  
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

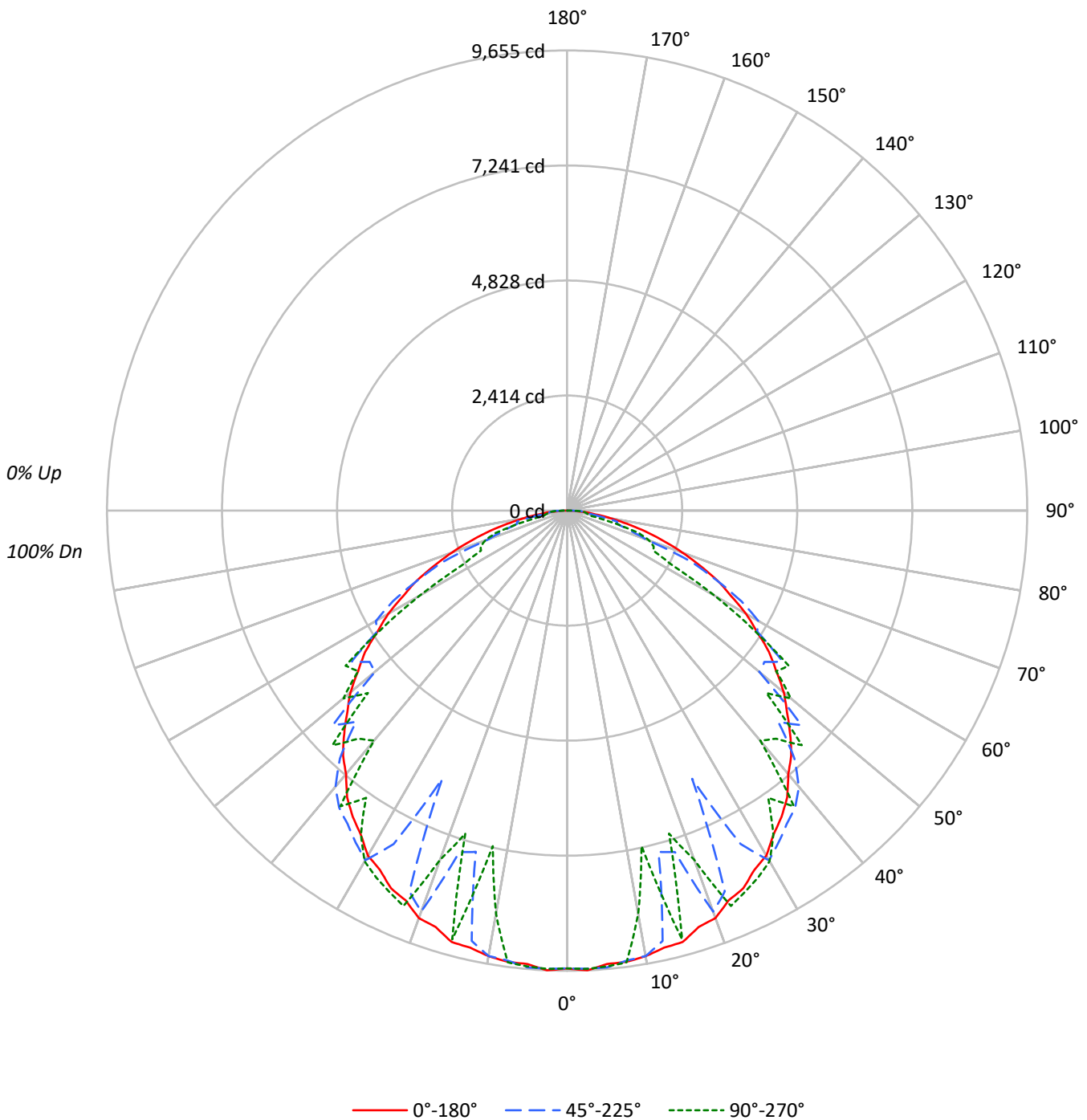
Lumens per Lamp: N/A  
Luminaire Lumens: 26412.0 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 204  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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°	14099	14099	14099
5°	14058	14070	14013
10°	14119	13933	12565
15°	14192	11012	13749
20°	14145	13563	11717
25°	14083	9667	13604
30°	14063	13675	13547
35°	13929	13572	12246
40°	13686	13511	11061
45°	13565	11978	13033
50°	13354	10897	12382
55°	13004	12579	12569
60°	12450	11838	8844
65°	11803	10119	5615
70°	10642	6057	6041
75°	9265	4679	4144
80°	7326	3895	2393
85°	5561	3043	2771



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	909.9	3.4
10°-20°	2429.4	9.2
20°-30°	3767.0	14.3
30°-40°	4829.4	18.3
40°-50°	4945.8	18.7
50°-60°	4689.8	17.8
60°-70°	3003.9	11.4
70°-80°	1459.7	5.5
80°-90°	376.9	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°	7106.3	26.9
0°-40°	11935.7	45.2
0°-60°	21571.4	81.7
0°-90°	26412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26412.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9605	9605	9605	9605	9605	
5°	9551	9578	9621	9644	9602	912
15°	9370	9370	7414	8720	9313	2632
25°	8746	7556	6208	8881	8827	4020
35°	7841	7892	8030	7822	7356	4898
45°	6617	6628	6266	6309	6963	5099
55°	5172	5334	5519	5323	5677	4596
65°	3489	3408	3451	2242	1995	3419
75°	1710	1910	1090	1321	1028	1809
85°	377	331	358	377	370	428
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9605.3	9605.3	9605.3	9605.3	9605.3
2.5°	9655.4	9663.1	9620.8	9605.3	9624.6
5°	9551.4	9578.4	9620.8	9643.9	9601.5
7.5°	9547.6	9559.1	9524.5	9651.6	9559.1
10°	9493.7	9559.1	9489.8	9154.7	8592.4
12.5°	9393.5	9405.1	9247.2	6662.9	7209.8
15°	9370.4	9370.4	7413.9	8719.5	9312.6
17.5°	9162.4	9212.5	7514.0	9158.6	7105.8
20°	9097.0	9066.2	8954.5	6485.7	7799.0
22.5°	8850.5	8638.6	8646.4	9012.2	8977.6
25°	8746.5	7556.4	6208.4	8881.3	8827.4
27.5°	8500.0	6335.5	7887.6	8688.7	8677.2
30°	8357.5	6589.7	8469.2	8530.8	8496.1
32.5°	8057.1	7564.1	8257.4	8388.3	8053.2
35°	7841.4	7891.5	8030.1	7822.2	7356.1
37.5°	7583.4	7240.6	7856.8	7132.8	7818.3
40°	7217.5	5642.3	7560.3	7652.7	6300.9
42.5°	6959.4	5522.9	7059.6	5938.8	6489.6
45°	6616.7	6628.2	6266.2	6308.6	6963.3
47.5°	6258.5	6404.8	6666.7	6701.4	5669.2
50°	5935.0	6077.5	5261.0	5680.8	6127.5
52.5°	5530.6	5730.9	5218.6	5865.7	5530.6
55°	5172.4	5334.2	5519.0	5322.6	5676.9
57.5°	4714.1	4972.1	4725.6	5226.3	4614.0
60°	4332.8	4329.0	4633.2	4656.3	3581.8
62.5°	3874.5	3843.7	4121.0	3123.5	2480.3
65°	3489.4	3408.5	3450.8	2241.5	1995.0
67.5°	3007.9	2669.0	2842.3	1871.8	1964.2
70°	2565.0	2549.6	1744.7	1297.9	1829.4
72.5°	2126.0	2314.7	1374.9	1621.4	1582.9
75°	1710.0	1910.3	1089.9	1321.0	1028.3
77.5°	1282.5	1386.5	1074.5	808.8	500.7
80°	928.2	654.7	685.5	458.3	458.3
82.5°	600.8	539.2	400.5	427.5	404.4
85°	377.4	331.2	358.2	377.4	369.7
87.5°	130.9	227.2	285.0	277.3	254.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)