

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-CLWG-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 (P34178)
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-CLWG-UNV-L840-CD4-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

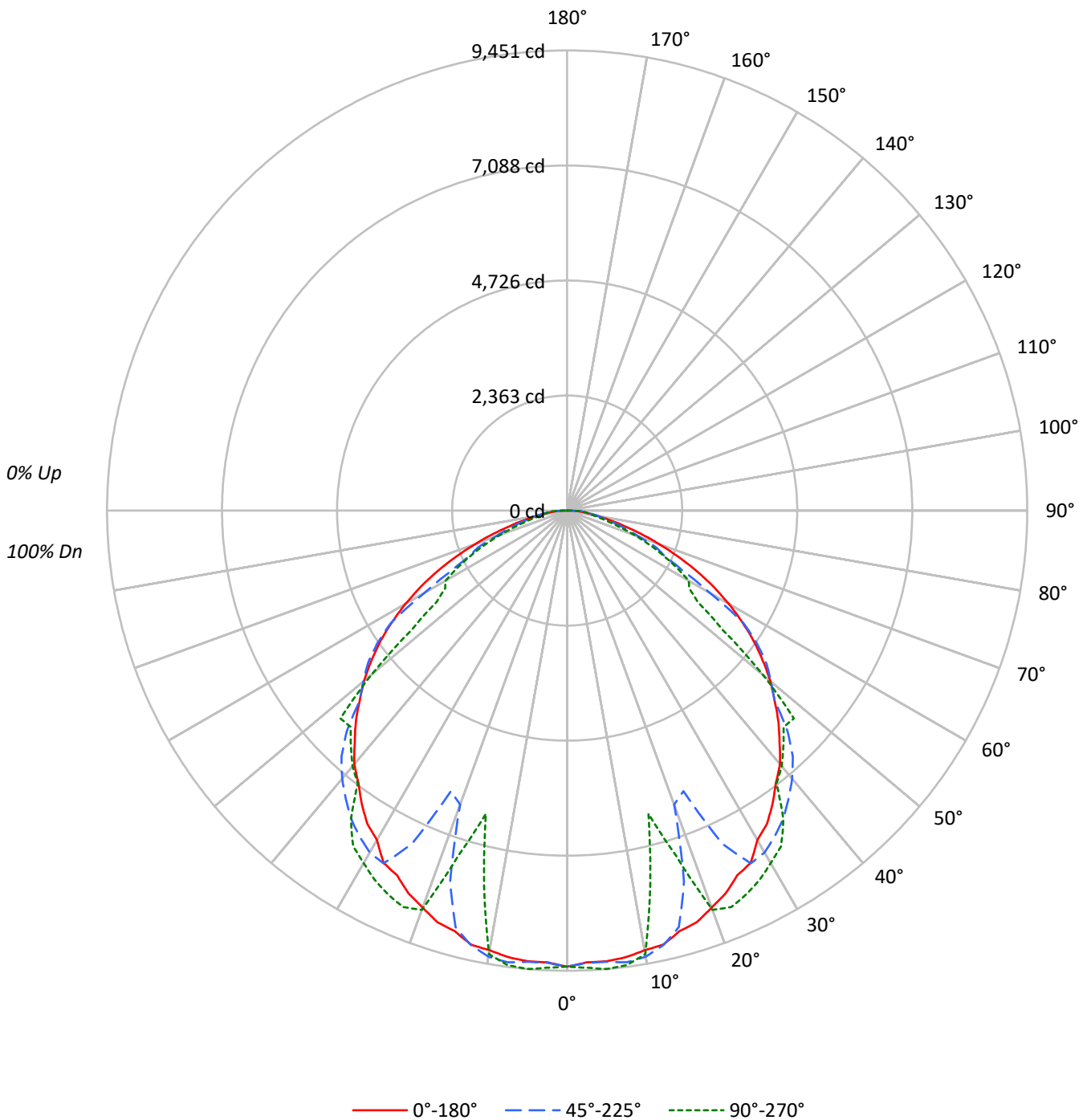
Lumens per Lamp: N/A
Luminaire Lumens: 24255.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
Input Voltage (V):
Input Current (Ain): 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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13748	13748	13748
5°	13678	13602	13794
10°	13638	13656	13522
15°	13538	13158	9519
20°	13492	9730	13111
25°	13308	11760	13408
30°	13143	13091	13332
35°	13060	13071	12893
40°	12897	12851	12034
45°	12586	12235	11764
50°	12253	11320	10631
55°	11775	10850	7240
60°	11022	8679	7123
65°	9914	6460	6136
70°	8309	5509	4871
75°	6511	4415	3586
80°	4955	3764	2735
85°	4484	3206	2743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.3	3.7
10°-20°	2357.1	9.7
20°-30°	3758.3	15.5
30°-40°	4510.9	18.6
40°-50°	4797.4	19.8
50°-60°	3924.8	16.2
60°-70°	2488.5	10.3
70°-80°	1149.6	4.7
80°-90°	379.2	1.6
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°	7004.7	28.9
0°-40°	11515.6	47.5
0°-60°	20237.8	83.4
0°-90°	24255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9367	9367	9367	9367	9367	
5°	9293	9297	9301	9374	9451	883
15°	8939	9078	8858	6979	6447	2533
25°	8265	8288	7553	8623	8700	3828
35°	7352	5511	7734	7880	7745	4594
45°	6139	6166	6401	6243	6286	4729
55°	4683	4930	4760	3690	3270	4171
65°	2931	2981	2203	2218	2180	2890
75°	1202	1140	1028	951	890	1316
85°	304	331	377	377	366	329
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9366.6	9366.6	9366.6	9366.6	9366.6
2.5°	9285.7	9301.1	9297.3	9366.6	9397.4
5°	9293.4	9297.3	9301.1	9374.3	9451.4
7.5°	9251.1	9332.0	9358.9	9332.0	9412.8
10°	9170.2	9243.4	9301.1	9220.3	9247.2
12.5°	9127.8	9235.7	9139.4	8742.7	7880.0
15°	8939.1	9077.8	8858.2	6978.8	6447.3
17.5°	8862.1	8954.5	7984.0	6416.4	7421.7
20°	8677.2	8804.3	6424.1	8249.7	8727.3
22.5°	8507.8	8600.2	6235.4	8677.2	8812.0
25°	8265.1	8288.2	7552.6	8623.3	8700.3
27.5°	8161.1	7814.5	8168.8	8511.6	8554.0
30°	7810.7	7098.1	8107.2	8357.6	8361.4
32.5°	7633.5	6181.5	7933.9	8134.2	8176.5
35°	7352.3	5511.4	7733.6	7880.0	7745.2
37.5°	7044.2	5415.1	7467.9	7390.9	7063.5
40°	6801.6	5908.1	7190.6	6713.0	6855.5
42.5°	6458.8	6208.5	6859.4	6547.4	6574.4
45°	6139.1	6166.1	6401.0	6243.1	6285.5
47.5°	5777.1	5954.3	5773.3	5981.2	6316.3
50°	5445.9	5634.6	5465.1	5807.9	5261.0
52.5°	5068.5	5303.4	5160.9	4671.8	4036.3
55°	4683.3	4929.8	4760.3	3689.6	3269.8
57.5°	4263.5	4467.6	4290.5	3023.4	2969.4
60°	3836.0	3997.8	3396.9	2753.8	2884.7
62.5°	3385.4	3485.5	2680.6	2538.1	2530.4
65°	2930.9	2981.0	2203.0	2218.4	2179.9
67.5°	2457.2	2480.3	1983.5	1879.5	1821.7
70°	2002.7	1987.3	1586.8	1529.0	1475.1
72.5°	1586.8	1513.6	1290.2	1213.2	1147.7
75°	1201.6	1140.0	1028.3	951.3	889.7
77.5°	893.5	858.9	804.9	812.6	681.7
80°	627.8	631.6	662.4	562.3	523.8
82.5°	435.2	458.3	473.7	466.0	454.5
85°	304.3	331.2	377.4	377.4	365.9
87.5°	154.1	227.2	304.3	323.5	315.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)