

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-CL-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 (P34177)
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-CL-UNV-L840-CD2-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

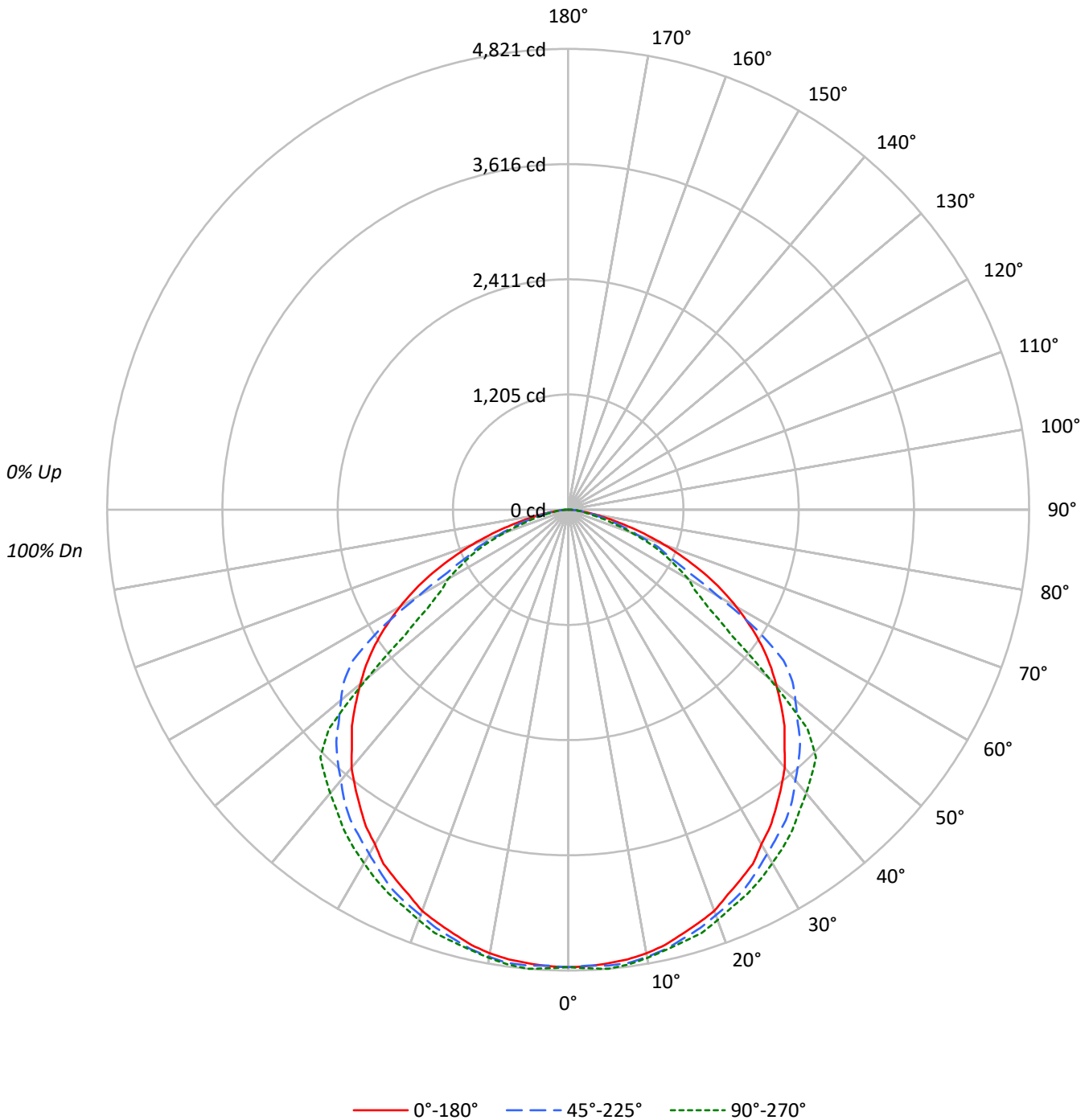
Lumens per Lamp: N/A
Luminaire Lumens: 12961.0 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7025	7025	7025
5°	7013	7002	7036
10°	7008	6975	6962
15°	6962	6901	6905
20°	6945	6839	6862
25°	6872	6809	6832
30°	6801	6718	6808
35°	6740	6706	6806
40°	6681	6607	6797
45°	6556	6556	6860
50°	6384	6426	5548
55°	6198	6267	3969
60°	5840	4631	3585
65°	5280	3400	3116
70°	4431	2672	2342
75°	3284	1983	1563
80°	2138	1395	977
85°	1120	844	730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.1	3.5
10°-20°	1314.9	10.1
20°-30°	2013.1	15.5
30°-40°	2477.9	19.1
40°-50°	2626.3	20.3
50°-60°	2109.2	16.3
60°-70°	1310.9	10.1
70°-80°	539.5	4.2
80°-90°	113.0	0.9
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°	3784.1	29.2
0°-40°	6262.0	48.3
0°-60°	10997.6	84.9
0°-90°	12961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4786	4786	4786	4786	4786	
5°	4765	4776	4788	4813	4821	453
15°	4597	4661	4646	4677	4677	1299
25°	4268	4312	4373	4422	4433	1969
35°	3794	3888	3968	4067	4088	2376
45°	3198	3268	3430	3593	3666	2460
55°	2465	2574	2750	1962	1793	2194
65°	1561	1672	1160	1101	1107	1538
75°	606	557	462	413	388	665
85°	76	94	99	99	97	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4786.0	4786.0	4786.0	4786.0	4786.0
2.5°	4778.2	4784.1	4774.3	4795.7	4801.6
5°	4764.6	4776.3	4788.0	4813.3	4821.1
7.5°	4745.1	4770.4	4784.1	4799.6	4799.6
10°	4712.0	4750.9	4750.9	4756.8	4760.7
12.5°	4665.2	4717.8	4708.1	4712.0	4717.8
15°	4597.0	4661.3	4645.7	4676.9	4676.9
17.5°	4532.7	4587.2	4589.2	4628.2	4641.8
20°	4466.4	4511.2	4515.1	4571.6	4567.7
22.5°	4359.2	4427.4	4446.9	4478.1	4493.7
25°	4267.7	4312.5	4372.9	4421.6	4433.3
27.5°	4180.0	4217.0	4265.7	4349.5	4359.2
30°	4041.6	4119.5	4160.5	4271.5	4269.6
32.5°	3932.5	4002.6	4061.1	4168.3	4183.9
35°	3794.1	3887.7	3967.6	4066.9	4088.4
37.5°	3659.7	3745.4	3844.8	3942.2	3971.4
40°	3523.2	3601.2	3696.7	3813.6	3872.1
42.5°	3347.9	3443.4	3568.1	3702.5	3768.8
45°	3197.8	3268.0	3429.7	3593.4	3665.5
47.5°	3016.6	3108.2	3250.4	3458.9	3392.7
50°	2837.3	2942.5	3102.3	3133.5	2745.7
52.5°	2660.0	2765.2	2958.1	2478.7	2147.5
55°	2465.1	2574.2	2749.6	1962.3	1792.8
57.5°	2252.7	2356.0	2340.4	1629.1	1570.7
60°	2032.5	2133.8	1812.3	1426.4	1451.8
62.5°	1804.5	1913.6	1422.6	1303.7	1264.7
65°	1560.9	1672.0	1159.5	1101.0	1106.9
67.5°	1307.6	1401.1	1017.2	939.3	919.8
70°	1067.9	1095.2	769.7	748.3	709.3
72.5°	828.2	793.1	611.9	565.1	524.2
75°	606.0	557.3	461.8	413.1	387.8
77.5°	420.9	385.8	333.2	350.8	259.2
80°	270.9	251.4	245.5	194.9	187.1
82.5°	159.8	157.8	152.0	140.3	136.4
85°	76.0	93.5	99.4	99.4	97.4
87.5°	27.3	46.8	62.4	66.3	70.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)