

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-LD5-18-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-LD5-18-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

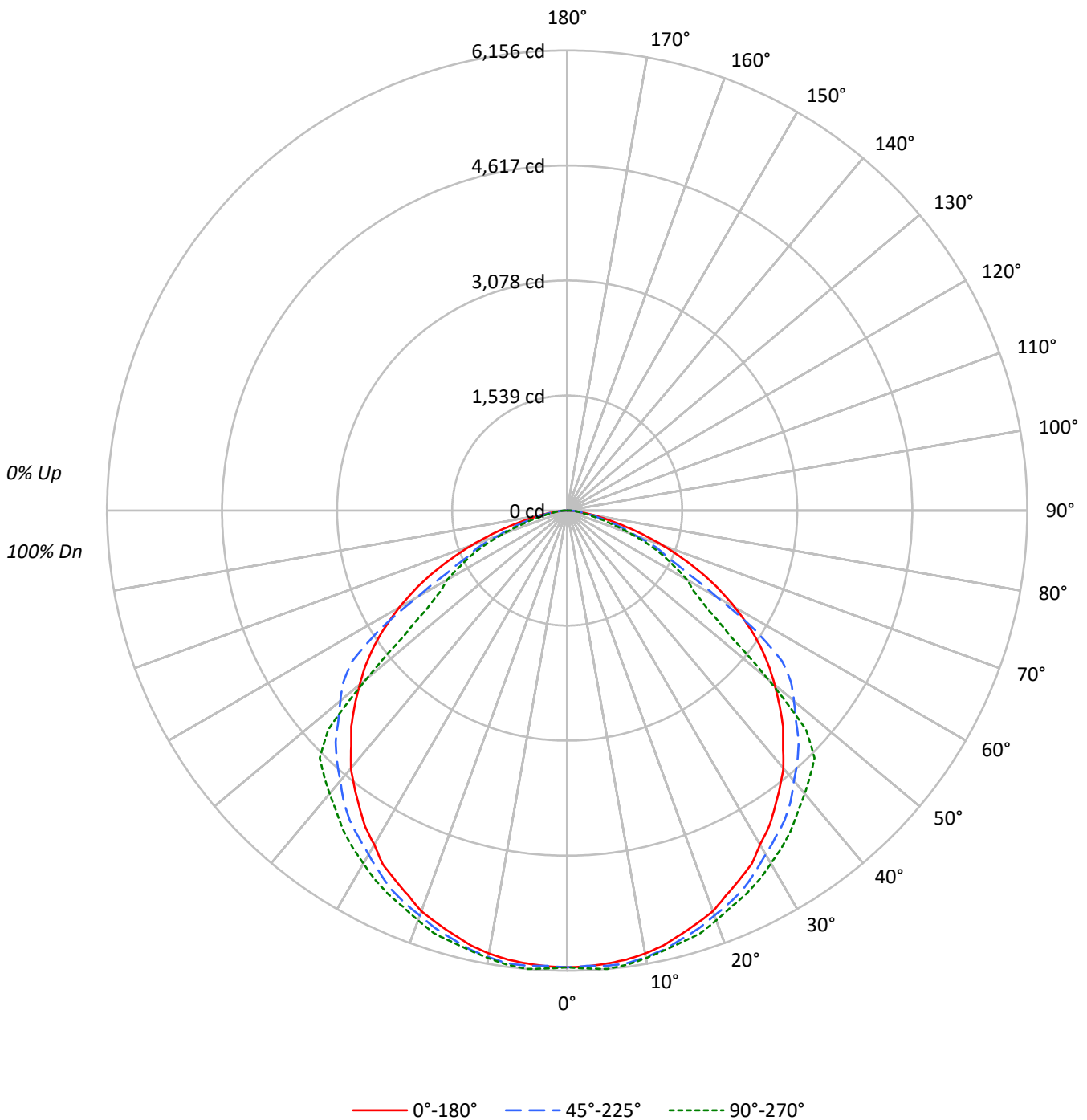
Lumens per Lamp: N/A
Luminaire Lumens: 16551.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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°	8971	8971	8971
5°	8955	8941	8985
10°	8948	8907	8890
15°	8891	8812	8818
20°	8869	8733	8763
25°	8775	8695	8725
30°	8685	8579	8693
35°	8606	8563	8691
40°	8531	8436	8680
45°	8372	8372	8761
50°	8152	8206	7085
55°	7914	8003	5069
60°	7458	5913	4577
65°	6742	4342	3978
70°	5658	3412	2991
75°	4193	2532	1996
80°	2730	1781	1248
85°	1429	1078	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.4	3.5
10°-20°	1679.1	10.1
20°-30°	2570.7	15.5
30°-40°	3164.3	19.1
40°-50°	3353.8	20.3
50°-60°	2693.5	16.3
60°-70°	1674.0	10.1
70°-80°	688.9	4.2
80°-90°	144.3	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°	4832.2	29.2
0°-40°	7996.5	48.3
0°-60°	14043.7	84.9
0°-90°	16551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6112	6112	6112	6112	6112	
5°	6084	6099	6114	6146	6156	579
15°	5870	5952	5932	5972	5972	1659
25°	5450	5507	5584	5646	5661	2514
35°	4845	4964	5066	5193	5221	3034
45°	4084	4173	4380	4589	4681	3141
55°	3148	3287	3511	2506	2289	2802
65°	1993	2135	1481	1406	1413	1964
75°	774	712	590	528	495	849
85°	97	119	127	127	124	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6111.7	6111.7	6111.7	6111.7	6111.7
2.5°	6101.7	6109.2	6096.7	6124.1	6131.6
5°	6084.3	6099.2	6114.1	6146.5	6156.4
7.5°	6059.4	6091.7	6109.2	6129.1	6129.1
10°	6017.1	6066.9	6066.9	6074.3	6079.3
12.5°	5957.4	6024.6	6012.1	6017.1	6024.6
15°	5870.3	5952.4	5932.5	5972.3	5972.3
17.5°	5788.2	5857.8	5860.3	5910.1	5927.5
20°	5703.5	5760.8	5765.8	5837.9	5832.9
22.5°	5566.7	5653.8	5678.7	5718.5	5738.4
25°	5449.7	5507.0	5584.1	5646.3	5661.2
27.5°	5337.7	5385.0	5447.2	5554.2	5566.7
30°	5161.1	5260.6	5312.9	5454.7	5452.2
32.5°	5021.7	5111.3	5185.9	5322.8	5342.7
35°	4845.0	4964.5	5066.5	5193.4	5220.8
37.5°	4673.3	4782.8	4909.7	5034.2	5071.5
40°	4499.1	4598.7	4720.6	4869.9	4944.6
42.5°	4275.2	4397.1	4556.4	4728.1	4812.7
45°	4083.6	4173.1	4379.7	4588.7	4680.8
47.5°	3852.1	3969.1	4150.7	4417.0	4332.4
50°	3623.2	3757.6	3961.6	4001.4	3506.2
52.5°	3396.7	3531.1	3777.5	3165.3	2742.3
55°	3147.9	3287.3	3511.2	2505.9	2289.4
57.5°	2876.7	3008.5	2988.6	2080.4	2005.7
60°	2595.5	2724.9	2314.3	1821.6	1853.9
62.5°	2304.3	2443.7	1816.6	1664.8	1615.0
65°	1993.3	2135.1	1480.6	1406.0	1413.4
67.5°	1669.8	1789.2	1299.0	1199.4	1174.6
70°	1363.7	1398.5	982.9	955.6	905.8
72.5°	1057.6	1012.8	781.4	721.7	669.4
75°	773.9	711.7	589.8	527.6	495.2
77.5°	537.5	492.7	425.5	447.9	331.0
80°	345.9	321.0	313.5	248.8	238.9
82.5°	204.1	201.6	194.1	179.2	174.2
85°	97.0	119.4	126.9	126.9	124.4
87.5°	34.8	59.7	79.6	84.6	89.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)