

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-LD5-32-W-CLWG-UNV-L835-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-LD5-32-W-CLWG-UNV-L835-CD4-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

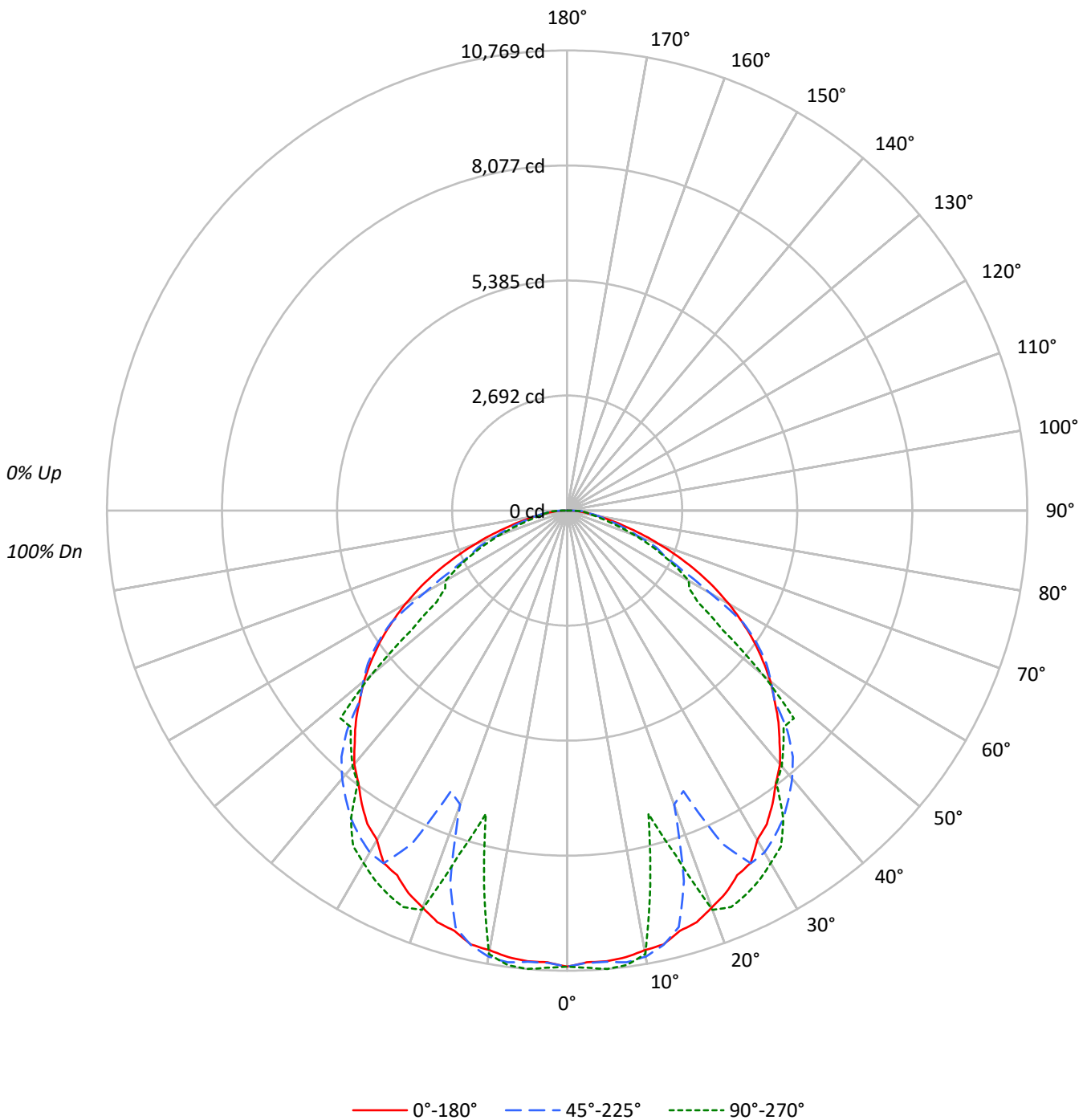
Lumens per Lamp: N/A
Luminaire Lumens: 27636.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
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°	15665	15665	15665
5°	15585	15498	15717
10°	15539	15559	15407
15°	15426	14992	10846
20°	15373	11086	14939
25°	15163	13400	15278
30°	14975	14916	15190
35°	14881	14893	14691
40°	14695	14642	13712
45°	14341	13941	13404
50°	13961	12898	12113
55°	13416	12362	8249
60°	12559	9890	8115
65°	11296	7361	6991
70°	9468	6277	5550
75°	7418	5031	4086
80°	5646	4289	3116
85°	5109	3653	3125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.3	3.7
10°-20°	2685.7	9.7
20°-30°	4282.2	15.5
30°-40°	5139.6	18.6
40°-50°	5466.1	19.8
50°-60°	4471.9	16.2
60°-70°	2835.3	10.3
70°-80°	1309.9	4.7
80°-90°	432.0	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°	7981.1	28.9
0°-40°	13120.8	47.5
0°-60°	23058.8	83.4
0°-90°	27636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10672	10672	10672	10672	10672	
5°	10589	10593	10598	10681	10769	###
15°	10185	10343	10093	7952	7346	2887
25°	9417	9444	8605	9825	9913	4362
35°	8377	6280	8812	8978	8825	5234
45°	6995	7026	7293	7113	7162	5388
55°	5336	5617	5424	4204	3726	4752
65°	3340	3396	2510	2528	2484	3293
75°	1369	1299	1172	1084	1014	1500
85°	347	377	430	430	417	374
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10672.3	10672.3	10672.3	10672.3	10672.3
2.5°	10580.1	10597.7	10593.3	10672.3	10707.4
5°	10588.9	10593.3	10597.7	10681.0	10768.8
7.5°	10540.6	10632.8	10663.5	10632.8	10724.9
10°	10448.5	10531.8	10597.7	10505.5	10536.2
12.5°	10400.2	10523.1	10413.4	9961.4	8978.4
15°	10185.2	10343.2	10093.0	7951.5	7346.0
17.5°	10097.4	10202.7	9096.9	7310.9	8456.2
20°	9886.8	10031.6	7319.6	9399.7	9943.8
22.5°	9693.7	9799.0	7104.6	9886.8	10040.4
25°	9417.2	9443.6	8605.4	9825.3	9913.1
27.5°	9298.7	8903.8	9307.5	9698.1	9746.3
30°	8899.4	8087.6	9237.3	9522.5	9526.9
32.5°	8697.6	7043.2	9039.8	9268.0	9316.3
35°	8377.2	6279.6	8811.6	8978.4	8824.8
37.5°	8026.1	6169.9	8508.9	8421.1	8048.1
40°	7749.7	6731.6	8192.9	7648.8	7811.1
42.5°	7359.1	7073.9	7815.5	7460.1	7490.8
45°	6994.9	7025.6	7293.3	7113.4	7161.7
47.5°	6582.4	6784.3	6578.0	6815.0	7196.8
50°	6205.0	6420.0	6227.0	6617.5	5994.4
52.5°	5775.0	6042.6	5880.3	5323.0	4598.9
55°	5336.1	5617.0	5423.9	4204.0	3725.6
57.5°	4857.8	5090.4	4888.5	3444.8	3383.4
60°	4370.7	4555.0	3870.5	3137.6	3286.8
62.5°	3857.3	3971.4	3054.2	2891.9	2883.1
65°	3339.5	3396.5	2510.1	2527.6	2483.8
67.5°	2799.7	2826.0	2260.0	2141.5	2075.7
70°	2281.9	2264.3	1808.0	1742.1	1680.7
72.5°	1808.0	1724.6	1470.1	1382.3	1307.7
75°	1369.1	1298.9	1171.7	1083.9	1013.7
77.5°	1018.1	978.6	917.1	925.9	776.7
80°	715.3	719.7	754.8	640.7	596.8
82.5°	495.9	522.2	539.8	531.0	517.8
85°	346.7	377.4	430.1	430.1	416.9
87.5°	175.5	258.9	346.7	368.6	359.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)