

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-N-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-32-N-UNV-L835-CD4-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

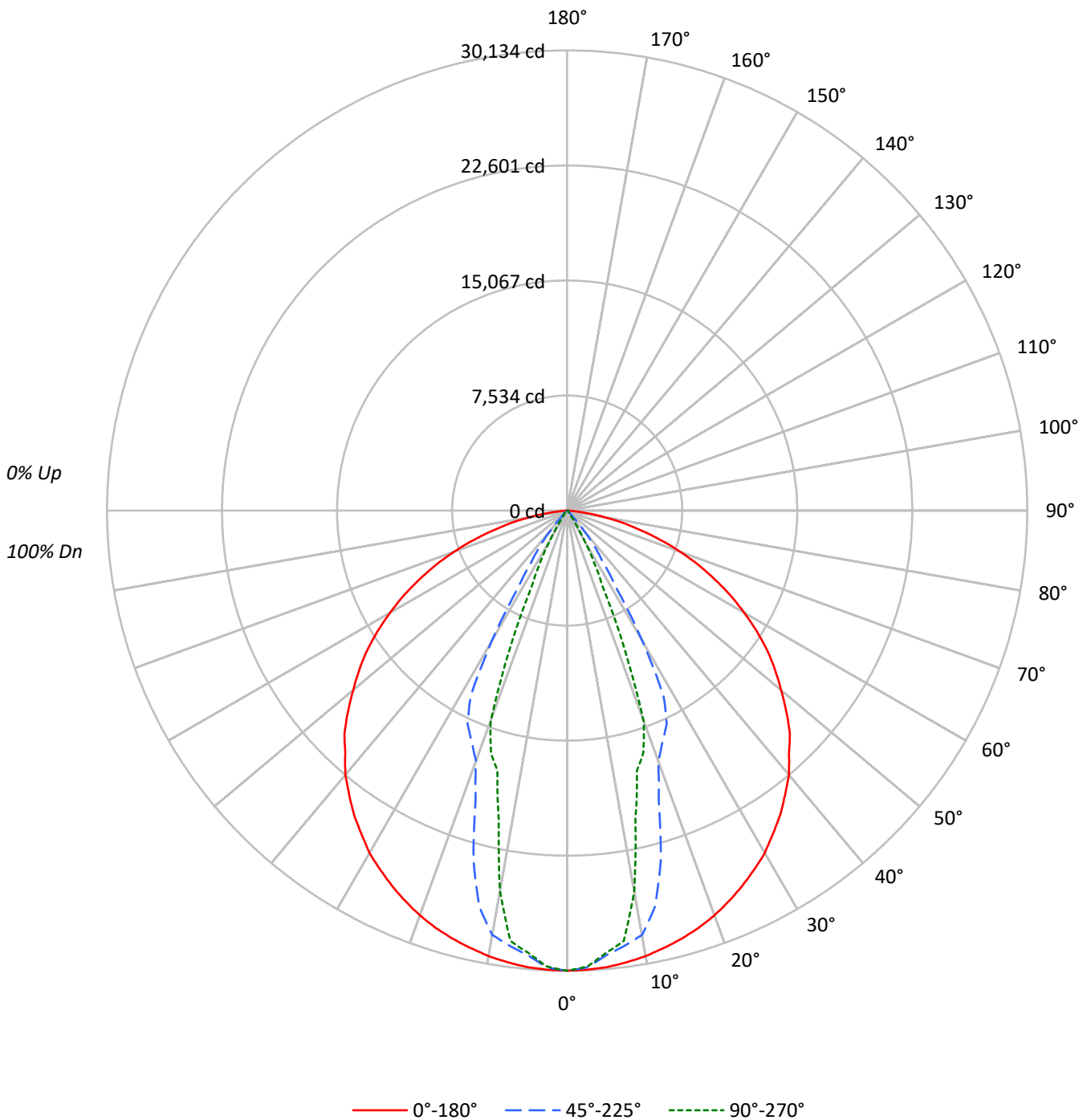
Lumens per Lamp: N/A
Luminaire Lumens: 30309.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81				81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48				48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	44232	44232	44232
5°	44164	42752	42444
10°	44054	41431	36987
15°	43944	35182	26044
20°	43856	26430	22020
25°	43658	24034	8550
30°	43559	15918	3644
35°	43210	6780	805
40°	42835	2992	574
45°	42289	716	266
50°	41151	442	144
55°	40260	281	147
60°	38478	254	152
65°	36104	264	160
70°	32679	280	172
75°	27132	326	191
80°	19650	377	173
85°	6638	403	214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2768.1	9.1
10°-20°	6606.8	21.8
20°-30°	7223.9	23.8
30°-40°	5227.9	17.2
40°-50°	3901.5	12.9
50°-60°	2278.2	7.5
60°-70°	1416.3	4.7
70°-80°	738.7	2.4
80°-90°	147.6	0.5
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°	16598.8	54.8
0°-40°	21826.8	72.0
0°-60°	28006.5	92.4
0°-90°	30309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30134	30134	30134	30134	30134	
5°	30006	29897	29234	29144	29082	###
15°	29015	27996	23686	18522	17640	8193
25°	27114	23017	15435	8047	5548	12507
35°	24326	14837	4012	868	484	15209
45°	20627	9697	375	256	142	15839
55°	16013	1878	123	142	66	14257
65°	10674	156	90	85	57	10554
75°	5007	95	76	62	47	5367
85°	450	62	47	43	28	853
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30134.5	30134.5	30134.5	30134.5	30134.5
2.5°	30087.1	30125.0	29944.8	29944.8	29892.7
5°	30006.5	29897.4	29233.6	29143.5	29081.8
7.5°	29831.0	29404.3	28754.6	28636.1	28432.2
10°	29622.4	28873.2	28218.8	26530.7	25293.1
12.5°	29328.4	28432.2	26578.1	22395.8	20679.3
15°	29015.4	27995.9	23685.6	18521.7	17639.7
17.5°	28645.6	27417.4	19925.3	16985.3	16606.0
20°	28204.6	26478.5	17450.0	15927.9	14657.1
22.5°	27687.7	25022.8	16331.0	13239.3	9810.9
25°	27114.0	23017.0	15434.8	8046.9	5548.0
27.5°	26511.7	20646.1	13661.3	4888.9	3788.7
30°	25885.8	18208.7	9858.3	3504.2	2285.6
32.5°	25084.4	16217.2	5979.5	1972.6	1019.5
35°	24325.7	14837.3	4011.6	867.8	483.7
37.5°	23448.5	13884.2	2930.5	460.0	341.4
40°	22590.2	12954.8	1673.9	346.2	327.2
42.5°	21509.1	11797.7	706.5	327.2	232.4
45°	20627.1	9697.1	374.6	256.1	142.3
47.5°	19460.6	6638.6	251.3	199.2	90.1
50°	18289.4	4101.7	213.4	156.5	71.1
52.5°	17175.0	2717.1	156.5	147.0	66.4
55°	16013.3	1877.8	123.3	142.3	66.4
57.5°	14723.5	924.7	104.3	137.5	61.6
60°	13391.0	360.4	99.6	132.8	61.6
62.5°	12072.8	199.2	94.8	109.1	56.9
65°	10673.9	156.5	90.1	85.4	56.9
67.5°	9289.3	128.0	85.4	80.6	56.9
70°	7876.2	113.8	80.6	71.1	52.2
72.5°	6434.7	104.3	75.9	71.1	47.4
75°	5007.4	94.8	75.9	61.6	47.4
77.5°	3746.1	90.1	71.1	61.6	37.9
80°	2489.5	80.6	66.4	52.2	33.2
82.5°	1375.1	75.9	56.9	47.4	33.2
85°	450.5	61.6	47.4	42.7	28.5
87.5°	71.1	42.7	37.9	37.9	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)