

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-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 (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-L840-CD4-U
Description: Metalux 8' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

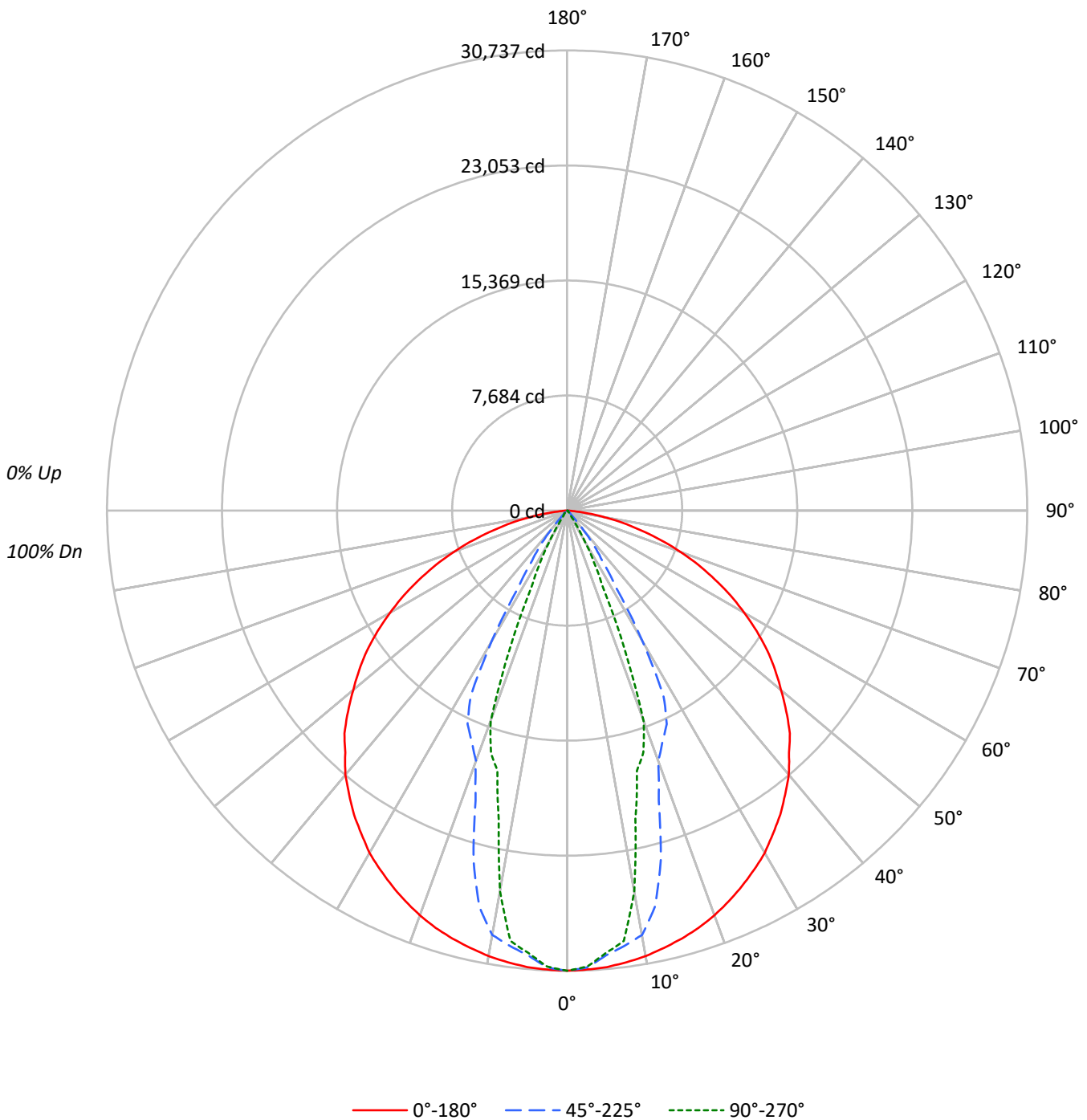
Lumens per Lamp: N/A
Luminaire Lumens: 30915.0 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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°	45116	45116	45116
5°	45047	43606	43293
10°	44934	42259	37726
15°	44823	35885	26564
20°	44733	26958	22460
25°	44531	24514	8721
30°	44430	16237	3717
35°	44074	6916	821
40°	43692	3051	586
45°	43134	730	272
50°	41973	451	147
55°	41065	287	150
60°	39247	260	155
65°	36826	269	163
70°	33332	285	176
75°	27674	332	195
80°	20043	385	177
85°	6771	411	217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2823.5	9.1
10°-20°	6738.9	21.8
20°-30°	7368.3	23.8
30°-40°	5332.4	17.2
40°-50°	3979.5	12.9
50°-60°	2323.7	7.5
60°-70°	1444.6	4.7
70°-80°	753.4	2.4
80°-90°	150.6	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°	16930.7	54.8
0°-40°	22263.2	72.0
0°-60°	28566.4	92.4
0°-90°	30915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30737	30737	30737	30737	30737	
5°	30606	30495	29818	29726	29663	###
15°	29596	28556	24159	18892	17992	8357
25°	27656	23477	15743	8208	5659	12757
35°	24812	15134	4092	885	493	15513
45°	21040	9891	382	261	145	16155
55°	16333	1915	126	145	68	14542
65°	10887	160	92	87	58	10765
75°	5108	97	77	63	48	5474
85°	460	63	48	44	29	870
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30737.0	30737.0	30737.0	30737.0	30737.0
2.5°	30688.7	30727.4	30543.6	30543.6	30490.4
5°	30606.4	30495.2	29818.1	29726.2	29663.3
7.5°	30427.5	29992.2	29329.6	29208.6	29000.7
10°	30214.7	29450.5	28783.0	27061.2	25798.8
12.5°	29914.8	29000.7	27109.5	22843.6	21092.7
15°	29595.6	28555.7	24159.2	18892.0	17992.4
17.5°	29218.3	27965.6	20323.7	17324.9	16938.0
20°	28768.5	27008.0	17798.9	16246.4	14950.1
22.5°	28241.3	25523.1	16657.5	13504.0	10007.1
25°	27656.1	23477.2	15743.4	8207.8	5658.9
27.5°	27041.8	21058.9	13934.4	4986.6	3864.5
30°	26403.4	18572.8	10055.4	3574.3	2331.3
32.5°	25586.0	16541.4	6099.0	2012.1	1039.9
35°	24812.1	15133.9	4091.8	885.1	493.3
37.5°	23917.3	14161.8	2989.1	469.2	348.2
40°	23041.9	13213.8	1707.3	353.1	333.7
42.5°	21939.1	12033.6	720.7	333.7	237.0
45°	21039.5	9891.0	382.1	261.2	145.1
47.5°	19849.7	6771.3	256.3	203.1	91.9
50°	18655.0	4183.7	217.7	159.6	72.6
52.5°	17518.4	2771.4	159.6	149.9	67.7
55°	16333.4	1915.3	125.8	145.1	67.7
57.5°	15017.9	943.2	106.4	140.3	62.9
60°	13658.8	367.6	101.6	135.4	62.9
62.5°	12314.2	203.1	96.7	111.2	58.0
65°	10887.3	159.6	91.9	87.1	58.0
67.5°	9475.0	130.6	87.1	82.2	58.0
70°	8033.7	116.1	82.2	72.6	53.2
72.5°	6563.4	106.4	77.4	72.6	48.4
75°	5107.5	96.7	77.4	62.9	48.4
77.5°	3821.0	91.9	72.6	62.9	38.7
80°	2539.3	82.2	67.7	53.2	33.9
82.5°	1402.6	77.4	58.0	48.4	33.9
85°	459.5	62.9	48.4	43.5	29.0
87.5°	72.6	43.5	38.7	38.7	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)