

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-TWB-UNV-L850-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-TWB-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

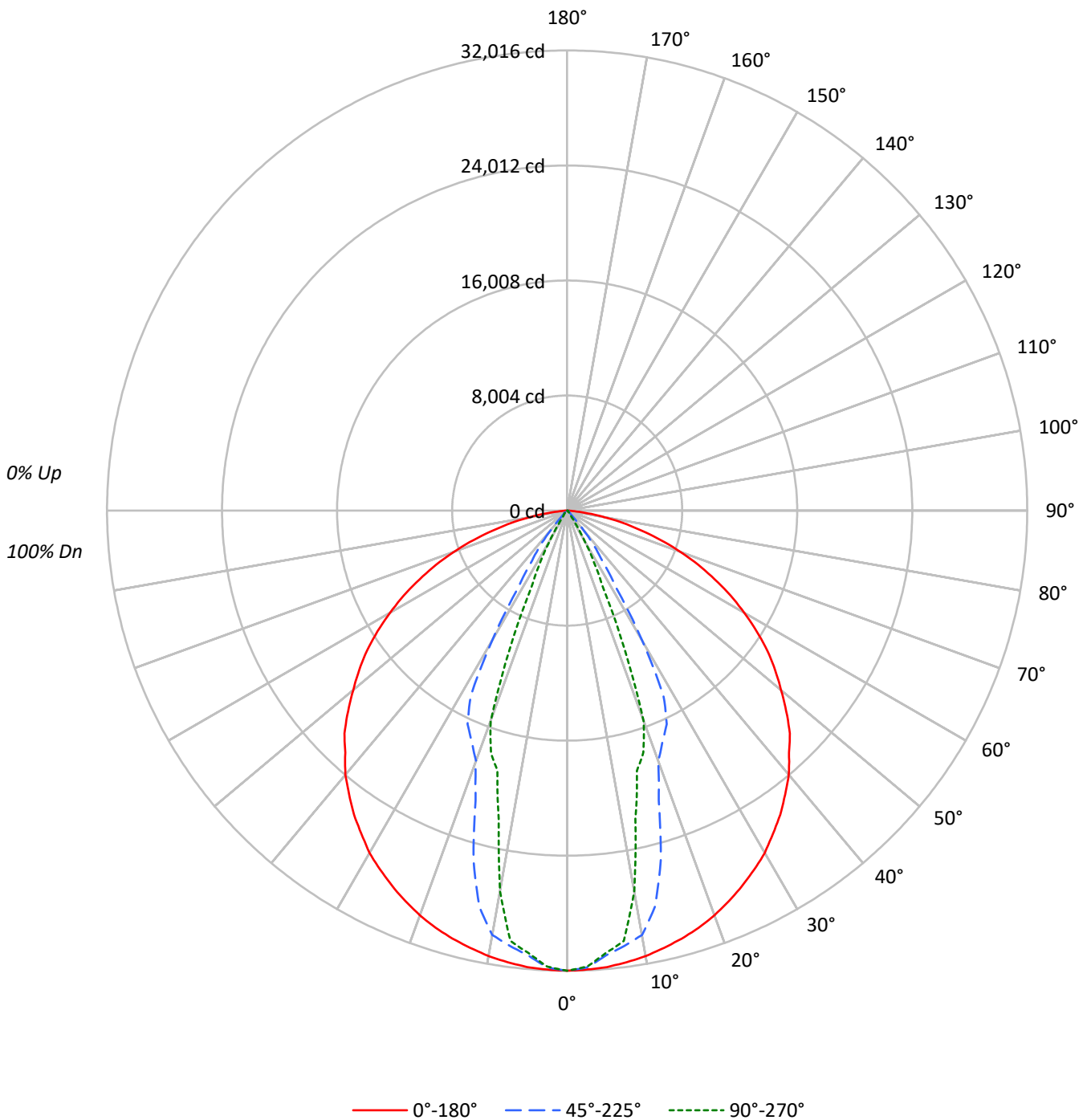
Lumens per Lamp: N/A
Luminaire Lumens: 32201.0 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
Input Voltage (V):
Input Current (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	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70		77	72	69		75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50		59	53	49		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	48	43	64	54	48	43	53	47	43		52	47	43		51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46993	46993	46993
5°	46920	45420	45094
10°	46804	44017	39295
15°	46687	37378	27670
20°	46594	28080	23395
25°	46383	25534	9084
30°	46278	16912	3872
35°	45907	7203	855
40°	45509	3178	610
45°	44929	761	283
50°	43719	470	153
55°	42773	299	156
60°	40880	270	162
65°	38358	281	170
70°	34719	297	183
75°	28826	346	203
80°	20877	401	184
85°	7053	428	226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2940.9	9.1
10°-20°	7019.3	21.8
20°-30°	7674.8	23.8
30°-40°	5554.2	17.2
40°-50°	4145.1	12.9
50°-60°	2420.4	7.5
60°-70°	1504.7	4.7
70°-80°	784.8	2.4
80°-90°	156.8	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°	17635.0	54.8
0°-40°	23189.3	72.0
0°-60°	29754.7	92.4
0°-90°	32201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32016	32016	32016	32016	32016	
5°	31880	31764	31058	30963	30897	###
15°	30827	29744	25164	19678	18741	8705
25°	28806	24454	16398	8549	5894	13288
35°	25844	15764	4262	922	514	16158
45°	21915	10302	398	272	151	16827
55°	17013	1995	131	151	70	15147
65°	11340	166	96	91	60	11212
75°	5320	101	81	66	50	5702
85°	479	66	50	45	30	907
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32015.6	32015.6	32015.6	32015.6	32015.6
2.5°	31965.2	32005.6	31814.1	31814.1	31758.7
5°	31879.6	31763.7	31058.4	30962.7	30897.2
7.5°	31693.2	31239.8	30549.6	30423.7	30207.0
10°	31471.5	30675.6	29980.3	28186.9	26872.0
12.5°	31159.2	30207.0	28237.2	23793.8	21970.1
15°	30826.7	29743.6	25164.1	19677.9	18740.9
17.5°	30433.7	29128.9	21169.1	18045.6	17642.6
20°	29965.2	28131.4	18539.3	16922.2	15572.0
22.5°	29416.1	26584.8	17350.4	14065.7	10423.3
25°	28806.5	24453.8	16398.2	8549.3	5894.3
27.5°	28166.7	21934.9	14514.1	5194.0	4025.3
30°	27501.7	19345.4	10473.7	3723.0	2428.3
32.5°	26650.3	17229.5	6352.7	2095.8	1083.1
35°	25844.2	15763.5	4262.0	921.9	513.9
37.5°	24912.2	14750.9	3113.4	488.7	362.7
40°	24000.4	13763.4	1778.4	367.8	347.6
42.5°	22851.8	12534.2	750.6	347.6	246.9
45°	21914.7	10302.4	398.0	272.0	151.1
47.5°	20675.4	7053.0	267.0	211.6	95.7
50°	19431.0	4357.8	226.7	166.2	75.6
52.5°	18247.1	2886.7	166.2	156.2	70.5
55°	17012.9	1995.0	131.0	151.1	70.5
57.5°	15642.6	982.4	110.8	146.1	65.5
60°	14226.9	382.9	105.8	141.1	65.5
62.5°	12826.4	211.6	100.8	115.9	60.5
65°	11340.2	166.2	95.7	90.7	60.5
67.5°	9869.2	136.0	90.7	85.6	60.5
70°	8367.9	120.9	85.6	75.6	55.4
72.5°	6836.4	110.8	80.6	75.6	50.4
75°	5320.0	100.8	80.6	65.5	50.4
77.5°	3979.9	95.7	75.6	65.5	40.3
80°	2644.9	85.6	70.5	55.4	35.3
82.5°	1461.0	80.6	60.5	50.4	35.3
85°	478.6	65.5	50.4	45.3	30.2
87.5°	75.6	45.3	40.3	40.3	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)