

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-LD5-22-N-TWB-UNV-L850-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 (P34185)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-22-N-TWB-UNV-L850-CD2-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: 21879.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

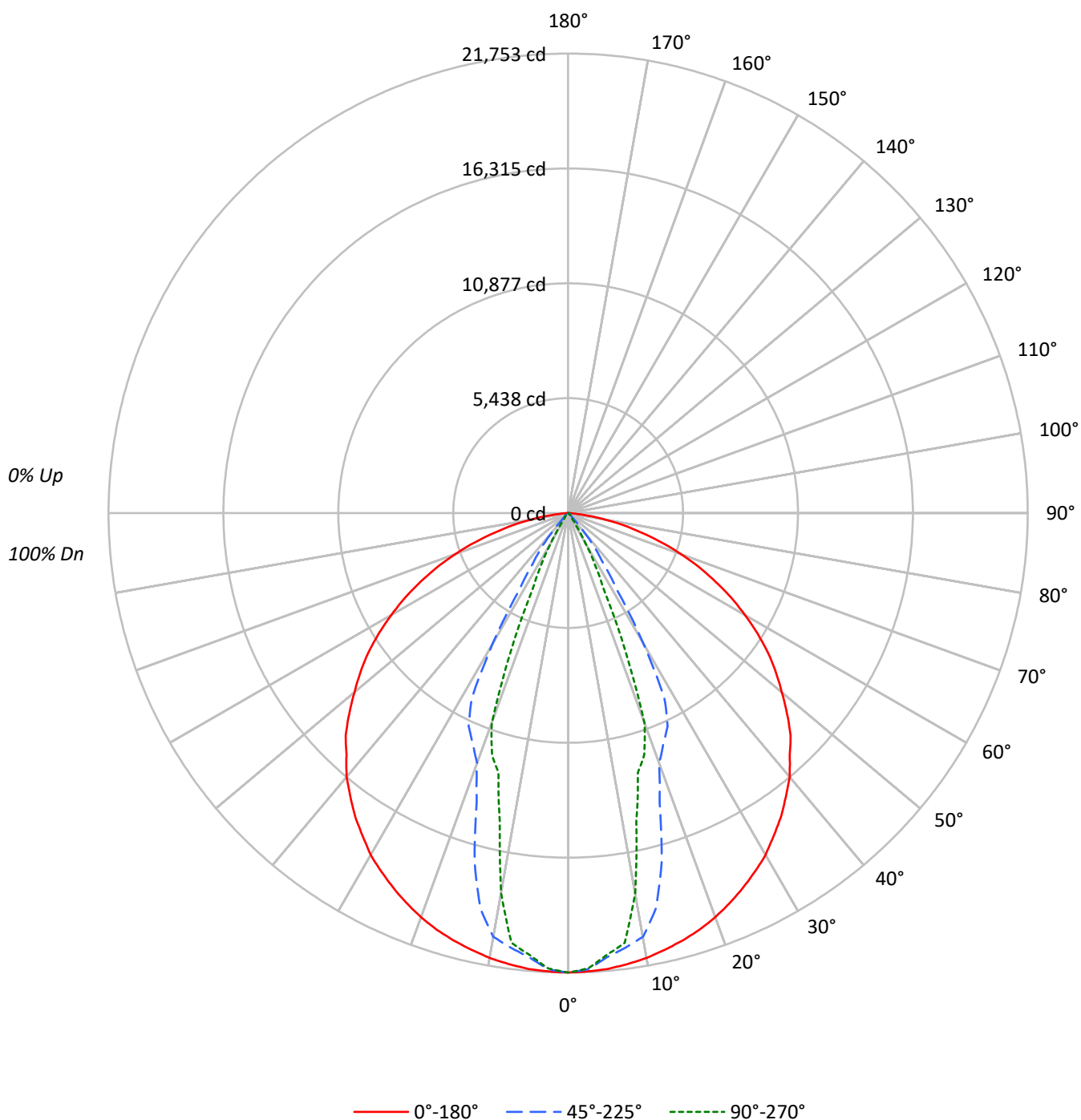
Input Watts (W): 167.7
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31929	31929	31929
5°	31880	30861	30639
10°	31801	29907	26699
15°	31722	25396	18800
20°	31658	19079	15896
25°	31515	17349	6172
30°	31444	11491	2631
35°	31192	4894	581
40°	30921	2159	415
45°	30527	517	192
50°	29705	319	104
55°	29062	203	106
60°	27776	184	110
65°	26062	191	116
70°	23590	202	124
75°	19586	235	138
80°	14185	272	125
85°	4792	290	154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1998.2	9.1
10°-20°	4769.3	21.8
20°-30°	5214.7	23.8
30°-40°	3773.8	17.2
40°-50°	2816.4	12.9
50°-60°	1644.5	7.5
60°-70°	1022.4	4.7
70°-80°	533.2	2.4
80°-90°	106.6	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°	11982.1	54.8
0°-40°	15756.0	72.0
0°-60°	20216.9	92.4
0°-90°	21879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21753	21753	21753	21753	21753	
5°	21661	21582	21103	21038	20993	###
15°	20945	20209	17098	13370	12734	5915
25°	19573	16615	11142	5809	4005	9029
35°	17560	10710	2896	626	349	10979
45°	14890	7000	270	185	103	11433
55°	11559	1356	89	103	48	10292
65°	7705	113	65	62	41	7618
75°	3615	68	55	44	34	3874
85°	325	44	34	31	20	616
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21753.0	21753.0	21753.0	21753.0	21753.0
2.5°	21718.8	21746.2	21616.1	21616.1	21578.5
5°	21660.6	21581.9	21102.7	21037.6	20993.1
7.5°	21534.0	21225.9	20757.0	20671.4	20524.2
10°	21383.4	20842.5	20370.2	19151.6	18258.2
12.5°	21171.1	20524.2	19185.8	16166.7	14927.6
15°	20945.2	20209.3	17097.8	13370.2	12733.5
17.5°	20678.2	19791.7	14383.4	12261.1	11987.3
20°	20359.9	19113.9	12596.6	11497.8	10580.4
22.5°	19986.8	18063.1	11788.7	9557.0	7082.1
25°	19572.6	16615.2	11141.8	5808.8	4004.9
27.5°	19137.9	14903.7	9861.6	3529.1	2735.0
30°	18686.1	13144.2	7116.4	2529.6	1649.9
32.5°	18107.6	11706.6	4316.4	1424.0	735.9
35°	17559.9	10710.5	2895.8	626.4	349.1
37.5°	16926.6	10022.5	2115.4	332.0	246.5
40°	16307.1	9351.6	1208.3	249.9	236.2
42.5°	15526.6	8516.4	510.0	236.2	167.7
45°	14890.0	7000.0	270.4	184.8	102.7
47.5°	14047.9	4792.2	181.4	143.8	65.0
50°	13202.4	2960.9	154.0	113.0	51.3
52.5°	12398.0	1961.4	113.0	106.1	47.9
55°	11559.4	1355.5	89.0	102.7	47.9
57.5°	10628.4	667.5	75.3	99.3	44.5
60°	9666.5	260.1	71.9	95.8	44.5
62.5°	8714.9	143.8	68.5	78.7	41.1
65°	7705.1	113.0	65.0	61.6	41.1
67.5°	6705.6	92.4	61.6	58.2	41.1
70°	5685.6	82.2	58.2	51.3	37.7
72.5°	4645.0	75.3	54.8	51.3	34.2
75°	3614.7	68.5	54.8	44.5	34.2
77.5°	2704.2	65.0	51.3	44.5	27.4
80°	1797.1	58.2	47.9	37.7	24.0
82.5°	992.7	54.8	41.1	34.2	24.0
85°	325.2	44.5	34.2	30.8	20.5
87.5°	51.3	30.8	27.4	27.4	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)