

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-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 (P34175)
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-TWB-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

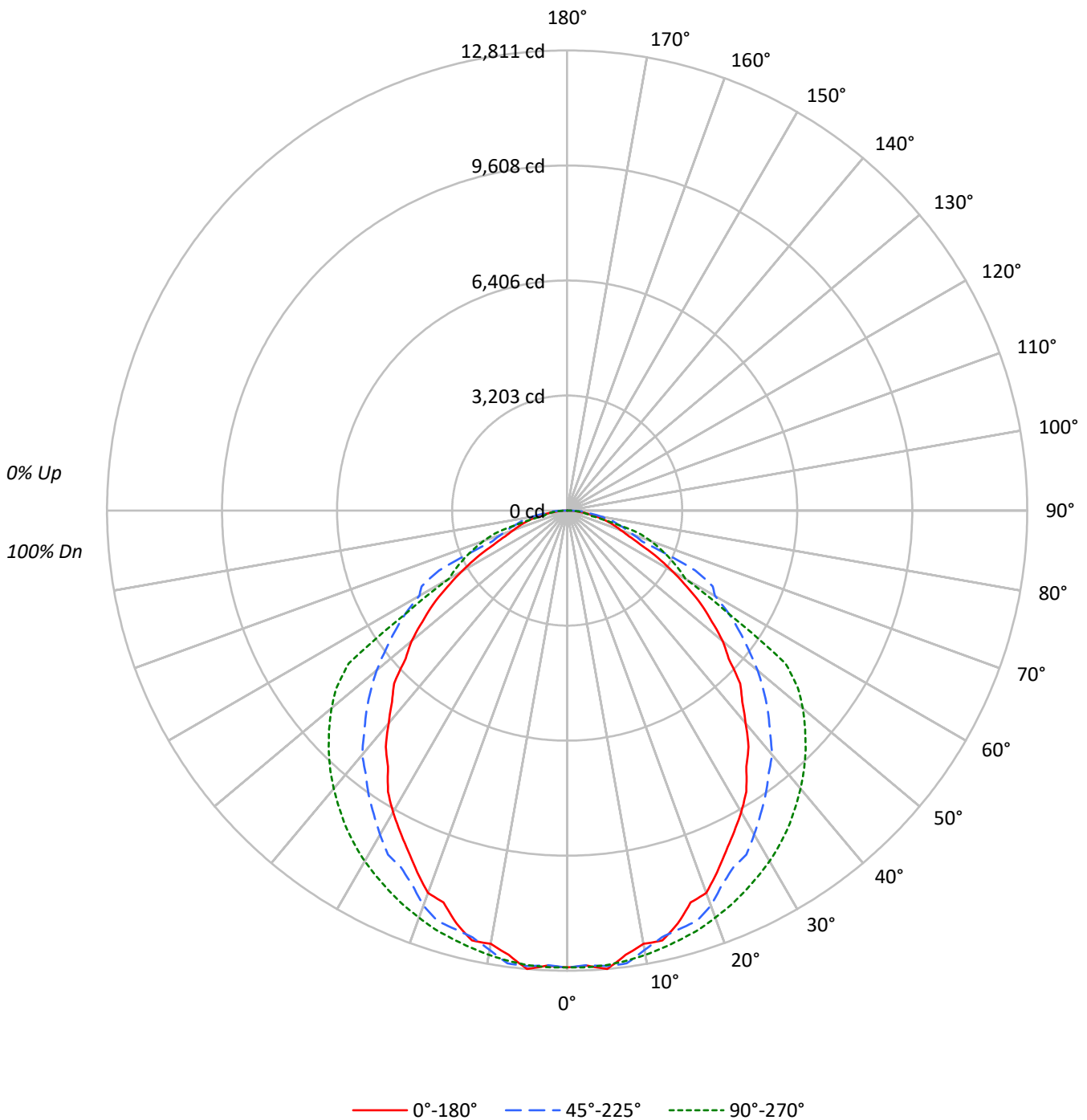
Lumens per Lamp: N/A
Luminaire Lumens: 32075.0 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18669	18669	18669
5°	18855	18614	18535
10°	18217	18233	18366
15°	18024	17914	18221
20°	17616	17724	18119
25°	16847	17053	18027
30°	16311	16816	17972
35°	15446	16292	17885
40°	14662	15860	17746
45°	13966	15113	17571
50°	12724	14340	17308
55°	11455	13352	16433
60°	9738	12136	9396
65°	7681	11543	8885
70°	6569	6807	8169
75°	6270	6195	5152
80°	5732	5475	3034
85°	4567	4113	2577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1204.9	3.8
10°-20°	3420.9	10.7
20°-30°	5106.1	15.9
30°-40°	6077.9	18.9
40°-50°	6145.3	19.2
50°-60°	5177.7	16.1
60°-70°	2991.8	9.3
70°-80°	1476.8	4.6
80°-90°	473.7	1.5
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°	9731.9	30.3
0°-40°	15809.8	49.3
0°-60°	27132.7	84.6
0°-90°	32075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12719	12719	12719	12719	12719	
5°	12811	12840	12729	12666	12700	###
15°	11901	12085	12060	12385	12341	3341
25°	10463	10656	10952	11484	11697	4831
35°	8696	9049	9640	10458	10744	5470
45°	6812	7020	7906	8855	9388	5169
55°	4556	4914	5858	6986	7422	4044
65°	2271	2769	3936	2958	3157	2338
75°	1157	1423	1443	1588	1278	1216
85°	310	382	484	576	344	356
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12718.9	12718.9	12718.9	12718.9	12718.9
2.5°	12680.2	12694.7	12665.7	12738.3	12723.8
5°	12810.9	12840.0	12728.6	12665.7	12699.6
7.5°	12476.9	12539.8	12714.1	12631.8	12641.5
10°	12249.3	12259.0	12418.8	12675.4	12559.2
12.5°	12259.0	12239.6	12167.0	12607.6	12457.5
15°	11900.7	12084.7	12060.5	12384.9	12341.3
17.5°	11440.7	11619.9	11983.0	12162.1	12225.1
20°	11329.4	11266.4	11702.2	11876.5	12060.5
22.5°	10898.5	11150.3	11271.3	11658.6	11895.9
25°	10462.7	10656.4	10951.7	11484.3	11697.4
27.5°	10070.6	10278.8	10801.7	11319.7	11489.2
30°	9692.9	9886.6	10414.3	11111.5	11271.3
32.5°	9281.4	9523.5	10022.2	10859.8	11019.5
35°	8695.5	9049.0	9639.7	10457.9	10743.6
37.5°	8293.7	8526.1	9218.4	10031.8	10428.8
40°	7732.1	8104.9	8874.7	9702.6	10109.3
42.5°	7214.0	7582.0	8356.6	9291.1	9765.5
45°	6812.2	7020.3	7906.4	8855.3	9387.9
47.5°	6095.6	6623.3	7417.4	8390.5	8986.0
50°	5655.0	6018.1	6923.5	7945.1	8564.8
52.5°	5083.7	5490.4	6366.7	7451.3	8095.2
55°	4556.0	4914.2	5858.4	6986.5	7422.2
57.5°	3955.6	4415.6	5330.6	6458.7	5296.7
60°	3389.1	3849.1	4749.6	4362.3	3805.5
62.5°	2846.9	3253.6	4570.5	3282.6	3490.8
65°	2270.7	2769.4	3936.2	2958.2	3156.7
67.5°	1864.0	2212.6	2270.7	2648.4	2822.7
70°	1583.2	1752.7	1960.9	2348.2	2474.1
72.5°	1375.0	1447.6	1704.3	2086.7	2106.1
75°	1157.1	1423.4	1442.8	1588.1	1278.2
77.5°	924.7	1147.5	1249.1	924.7	653.6
80°	726.2	779.5	963.5	813.4	581.0
82.5°	503.5	576.2	668.1	702.0	479.3
85°	309.9	382.5	484.2	576.2	343.8
87.5°	130.7	208.2	334.1	445.4	188.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)