

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-TWBWG-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 (P34176)
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-TWBWG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD
DISTRIBUTION

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

Summary

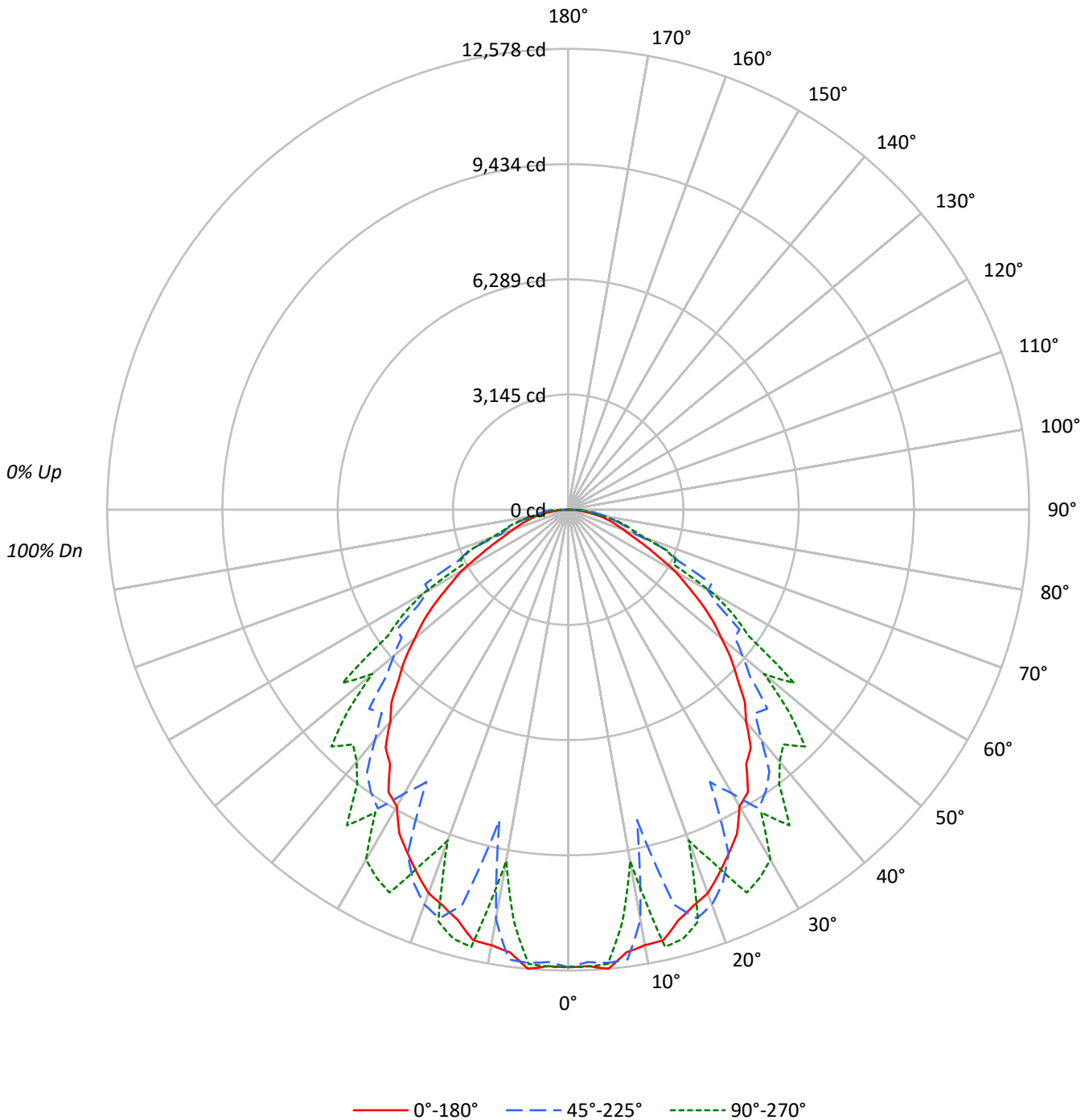
Lumens per Lamp: N/A
Luminaire Lumens: 30337.0 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18327	18327	18327
5°	18512	18153	18159
10°	17949	16682	14230
15°	17575	16583	17898
20°	17314	17371	14423
25°	16674	16132	17772
30°	15731	14439	17584
35°	15049	15874	17513
40°	14312	14648	15748
45°	13389	14686	17107
50°	12287	12865	14098
55°	11064	12998	13292
60°	9696	11244	11236
65°	7778	9710	9116
70°	6689	6756	7241
75°	6348	6485	6439
80°	5846	6107	3817
85°	5421	5510	3628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1138.6	3.8
10°-20°	3194.7	10.5
20°-30°	4618.6	15.2
30°-40°	5784.4	19.1
40°-50°	5630.7	18.6
50°-60°	4819.8	15.9
60°-70°	2989.9	9.9
70°-80°	1555.9	5.1
80°-90°	604.3	2.0
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°	8952.0	29.5
0°-40°	14736.3	48.6
0°-60°	25186.9	83.0
0°-90°	30337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12486	12486	12486	12486	12486	
5°	12578	12539	12413	12365	12442	###
15°	11605	11648	11164	12186	12123	3285
25°	10356	8584	10360	10651	11532	4759
35°	8472	8830	9392	9315	10520	5354
45°	6531	5863	7683	7857	9140	5052
55°	4401	4817	5703	6807	6003	3936
65°	2300	2580	3311	2803	3239	2334
75°	1172	1360	1510	1622	1598	1240
85°	368	489	649	746	484	395
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12485.7	12485.7	12485.7	12485.7	12485.7
2.5°	12471.2	12417.9	12359.8	12461.5	12480.8
5°	12577.7	12538.9	12413.1	12364.6	12442.1
7.5°	12185.5	12267.8	12384.0	11754.6	11348.0
10°	12069.3	12025.8	11362.5	8748.2	9731.0
12.5°	12030.6	11977.3	8675.6	12161.3	12219.4
15°	11604.6	11648.1	11164.0	12185.5	12122.6
17.5°	11343.1	10742.8	11691.7	11895.0	11783.7
20°	11135.0	9363.1	11469.0	10926.8	9600.3
22.5°	10752.5	7983.3	11023.6	8767.6	10471.7
25°	10355.5	8583.6	10360.4	10650.8	11531.9
27.5°	9973.1	9726.1	8380.3	11115.6	11323.8
30°	9348.5	9643.8	8941.9	10883.2	11028.5
32.5°	9130.7	9208.1	9668.1	10278.1	9793.9
35°	8472.3	8830.5	9392.1	9314.6	10520.1
37.5°	8181.8	8283.4	9014.5	9808.4	9450.2
40°	7547.6	7702.5	8196.3	8665.9	8970.9
42.5°	7136.1	6618.0	7533.0	8399.6	8690.1
45°	6530.9	5862.8	7683.1	7857.4	9140.4
47.5°	6037.1	5824.1	6724.5	8176.9	8176.9
50°	5461.0	5741.8	6211.4	7305.5	6976.3
52.5°	4967.2	5349.6	5732.1	6351.8	7770.3
55°	4400.7	4817.1	5703.0	6806.9	6003.2
57.5°	3844.0	4197.4	4841.3	5214.1	5354.5
60°	3374.4	3718.1	4400.7	4686.4	4550.8
62.5°	2769.2	3204.9	4400.7	3693.9	3238.8
65°	2299.6	2580.4	3311.4	2803.1	3238.8
67.5°	1888.1	2178.6	2943.5	2706.3	2885.4
70°	1612.1	1820.3	1946.2	2420.6	2193.1
72.5°	1379.8	1529.8	1781.6	1830.0	1820.3
75°	1171.6	1360.4	1510.5	1621.8	1597.6
77.5°	973.1	1239.4	1244.2	1491.1	1297.5
80°	740.7	847.2	1074.8	973.1	731.0
82.5°	542.2	663.3	818.2	842.4	643.9
85°	367.9	489.0	648.7	745.6	484.1
87.5°	169.4	334.0	527.7	668.1	440.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)