

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-CL-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 (P34177)
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-CL-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME 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): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

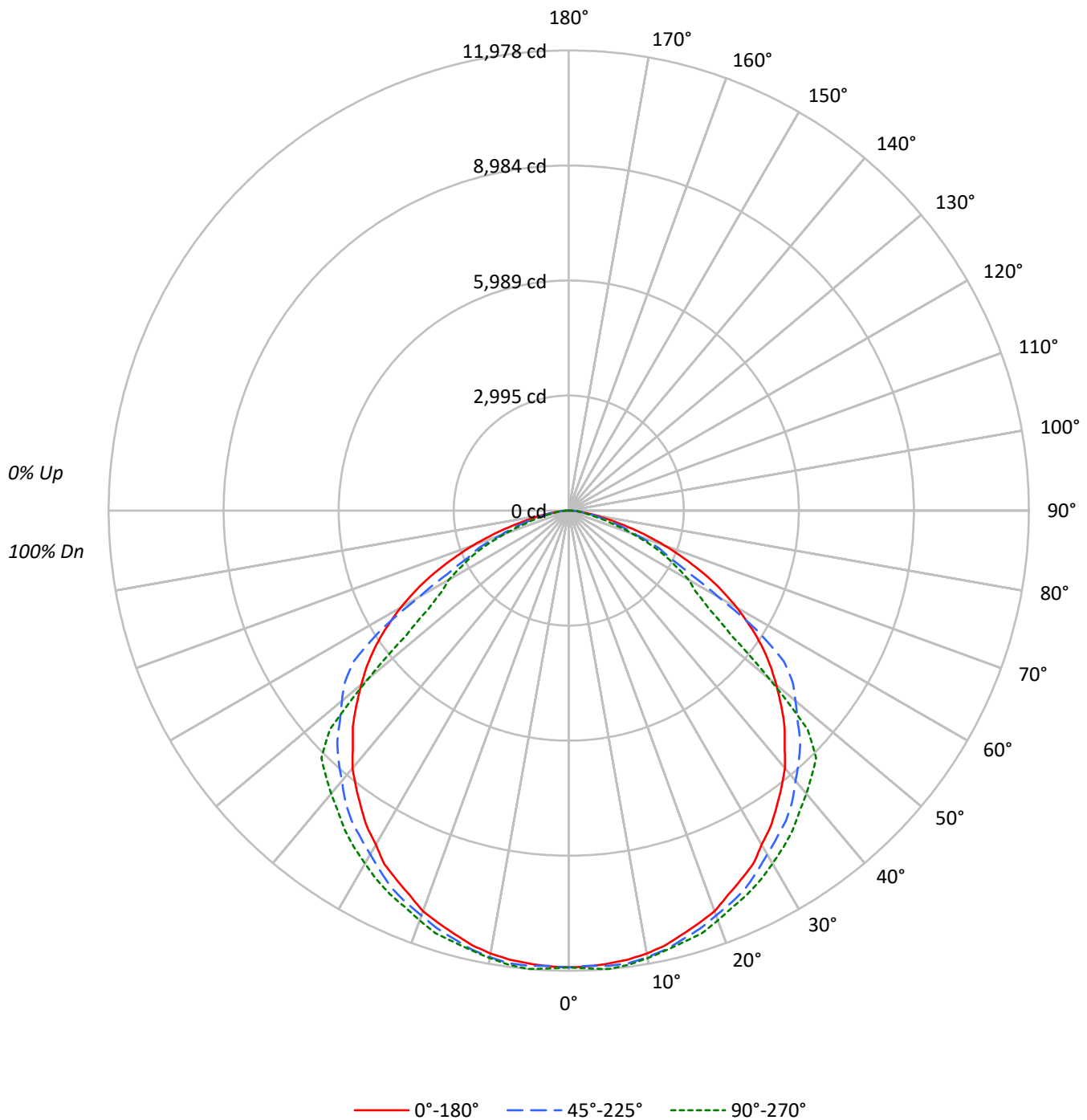
Input Watts (W): 253.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62		62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17453	17453	17453
5°	17422	17396	17481
10°	17410	17330	17296
15°	17297	17144	17155
20°	17254	16990	17049
25°	17072	16917	16975
30°	16897	16691	16913
35°	16744	16660	16909
40°	16598	16414	16887
45°	16288	16287	17044
50°	15861	15965	13785
55°	15398	15570	9862
60°	14510	11504	8906
65°	13117	8447	7740
70°	11008	6639	5819
75°	8158	4926	3883
80°	5312	3466	2427
85°	2782	2097	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1133.1	3.5
10°-20°	3266.8	10.1
20°-30°	5001.4	15.5
30°-40°	6156.3	19.1
40°-50°	6525.0	20.3
50°-60°	5240.3	16.3
60°-70°	3256.9	10.1
70°-80°	1340.3	4.2
80°-90°	280.8	0.9
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°	9401.3	29.2
0°-40°	15557.7	48.3
0°-60°	27323.0	84.9
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°	11891	11891	11891	11891	11891	
5°	11837	11866	11895	11958	11978	###
15°	11421	11581	11542	11620	11620	3228
25°	10603	10714	10864	10985	11014	4891
35°	9426	9659	9857	10104	10157	5902
45°	7945	8119	8521	8928	9107	6112
55°	6124	6396	6831	4875	4454	5451
65°	3878	4154	2881	2735	2750	3821
75°	1506	1385	1147	1026	963	1651
85°	189	232	247	247	242	269
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11890.6	11890.6	11890.6	11890.6	11890.6
2.5°	11871.2	11885.8	11861.6	11914.8	11929.3
5°	11837.3	11866.4	11895.4	11958.4	11977.7
7.5°	11788.9	11851.9	11885.8	11924.5	11924.5
10°	11706.6	11803.5	11803.5	11818.0	11827.7
12.5°	11590.4	11721.2	11696.9	11706.6	11721.2
15°	11421.0	11580.8	11542.0	11619.5	11619.5
17.5°	11261.2	11396.8	11401.6	11498.4	11532.3
20°	11096.6	11208.0	11217.6	11358.0	11348.4
22.5°	10830.3	10999.8	11048.2	11125.7	11164.4
25°	10602.8	10714.1	10864.2	10985.3	11014.3
27.5°	10384.9	10476.9	10597.9	10806.1	10830.3
30°	10041.2	10234.8	10336.5	10612.5	10607.6
32.5°	9770.0	9944.3	10089.6	10355.9	10394.6
35°	9426.3	9658.7	9857.2	10104.1	10157.4
37.5°	9092.2	9305.3	9552.2	9794.3	9866.9
40°	8753.3	8947.0	9184.2	9474.7	9620.0
42.5°	8317.6	8554.8	8864.7	9198.8	9363.4
45°	7944.8	8119.1	8521.0	8927.6	9106.8
47.5°	7494.6	7722.1	8075.5	8593.6	8429.0
50°	7049.2	7310.6	7707.6	7785.1	6821.6
52.5°	6608.6	6870.0	7349.3	6158.3	5335.3
55°	6124.4	6395.6	6831.3	4875.3	4454.1
57.5°	5596.7	5853.3	5814.6	4047.5	3902.2
60°	5049.6	5301.4	4502.5	3543.9	3606.9
62.5°	4483.2	4754.3	3534.3	3238.9	3142.1
65°	3878.0	4154.0	2880.7	2735.4	2749.9
67.5°	3248.6	3481.0	2527.2	2333.6	2285.2
70°	2653.1	2720.9	1912.4	1859.1	1762.3
72.5°	2057.6	1970.5	1520.2	1404.0	1302.4
75°	1505.7	1384.7	1147.4	1026.4	963.4
77.5°	1045.8	958.6	827.9	871.5	643.9
80°	673.0	624.5	610.0	484.1	464.8
82.5°	397.0	392.2	377.6	348.6	338.9
85°	188.8	232.4	246.9	246.9	242.1
87.5°	67.8	116.2	154.9	164.6	174.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)