

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-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 (P34173)  
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-UNV-L850-CD4-U  
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

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

**Summary**

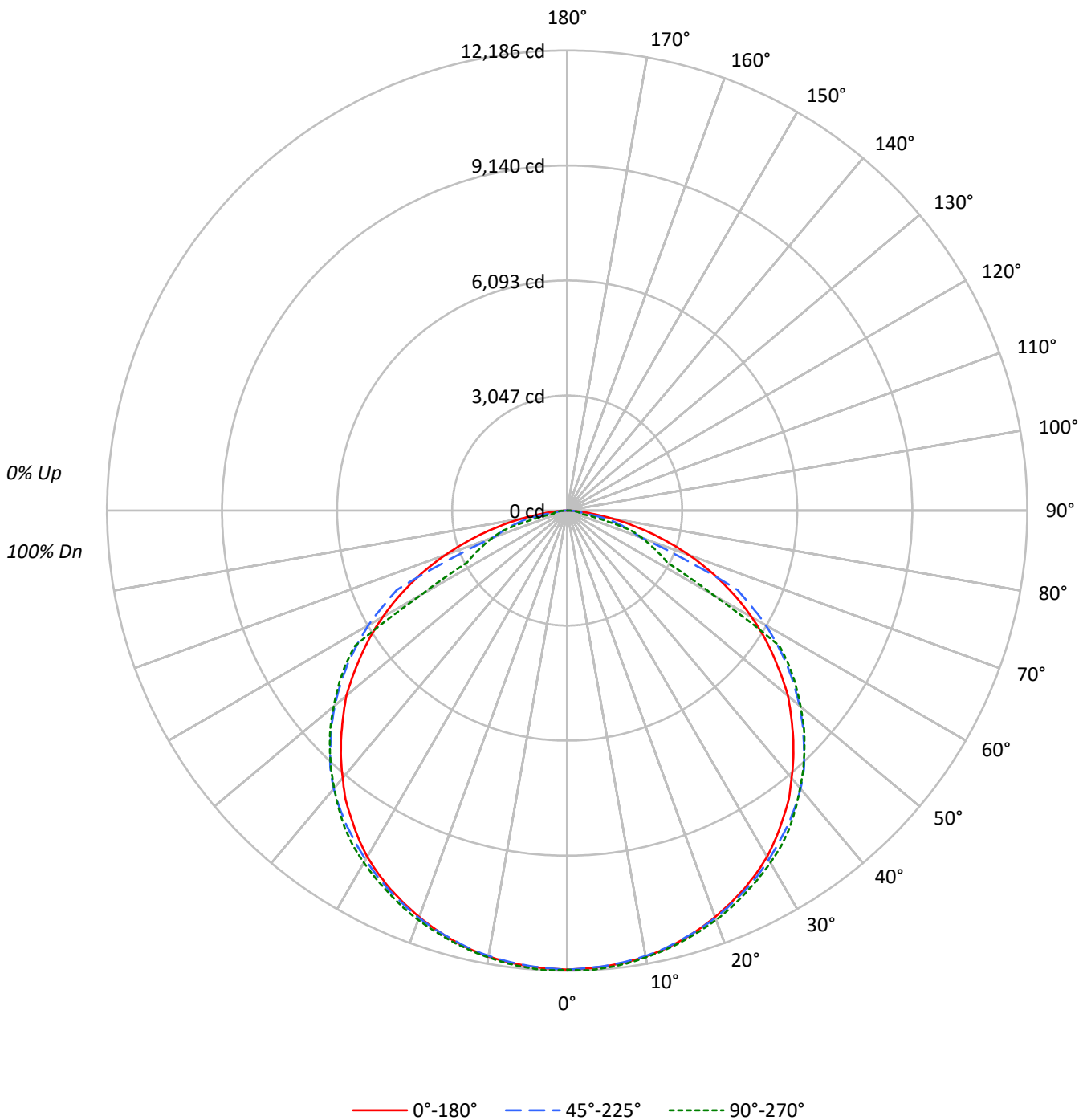
Lumens per Lamp: N/A  
Luminaire Lumens: 35082.0 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 253.2  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87					85				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73					71				
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62					60				
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54					51				
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47					44				
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34				
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32					30				
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29					27				
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26					25				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17844	17844	17844
5°	17821	17693	17736
10°	17835	17586	17572
15°	17825	17460	17434
20°	17812	17386	17333
25°	17813	17301	17221
30°	17817	17238	17168
35°	17699	17208	17086
40°	17535	17192	16853
45°	17350	16954	16637
50°	17179	16646	16309
55°	16712	16188	15908
60°	16221	15537	11045
65°	15426	14609	7576
70°	14202	7143	6938
75°	12277	6236	4332
80°	9286	3714	1770
85°	4851	1892	1633



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1153.2	3.3
10°-20°	3329.7	9.5
20°-30°	5133.9	14.6
30°-40°	6357.1	18.1
40°-50°	6767.2	19.3
50°-60°	6244.5	17.8
60°-70°	3998.1	11.4
70°-80°	1800.9	5.1
80°-90°	297.4	0.8
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°	9616.8	27.4
0°-40°	15973.8	45.5
0°-60°	28985.5	82.6
0°-90°	35082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35082.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12157	12157	12157	12157	12157	
5°	12108	12128	12099	12133	12152	###
15°	11770	11789	11755	11813	11808	3324
25°	11063	11092	11111	11184	11174	5102
35°	9964	10065	10182	10288	10264	6237
45°	8463	8637	8870	8928	8889	6530
55°	6647	6889	7102	7219	7185	5945
65°	4561	4778	4982	2750	2692	4504
75°	2266	2464	1452	1491	1075	2408
85°	329	247	223	237	218	480
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12156.9	12156.9	12156.9	12156.9	12156.9
2.5°	12137.5	12161.7	12127.8	12161.7	12185.9
5°	12108.5	12127.8	12098.8	12132.7	12152.0
7.5°	12060.1	12079.4	12045.5	12079.4	12098.8
10°	11992.3	12002.0	11977.8	12011.6	12016.5
12.5°	11895.4	11905.1	11885.8	11919.7	11924.5
15°	11769.6	11788.9	11755.0	11813.1	11808.3
17.5°	11624.3	11643.7	11629.2	11672.7	11677.6
20°	11454.9	11474.2	11479.1	11532.3	11537.2
22.5°	11266.1	11295.1	11300.0	11372.6	11367.7
25°	11062.7	11091.8	11111.1	11183.8	11174.1
27.5°	10840.0	10878.7	10907.8	10980.4	10980.4
30°	10588.3	10641.5	10675.4	10772.2	10767.4
32.5°	10288.1	10389.8	10428.5	10549.5	10539.8
35°	9963.7	10065.4	10181.6	10288.1	10263.9
37.5°	9644.2	9745.8	9905.6	9968.6	9939.5
40°	9247.2	9416.6	9620.0	9644.2	9600.6
42.5°	8869.5	9005.1	9281.1	9295.6	9256.9
45°	8462.9	8637.2	8869.5	8927.6	8888.9
47.5°	8041.7	8191.7	8462.9	8535.5	8506.4
50°	7635.0	7770.5	8036.8	8109.4	8070.7
52.5°	7136.3	7339.6	7567.2	7683.4	7639.8
55°	6647.3	6889.4	7102.4	7218.6	7184.7
57.5°	6158.3	6424.6	6584.4	6744.1	6661.8
60°	5645.1	5906.6	6080.9	6008.2	4473.5
62.5°	5112.6	5364.3	5509.6	3694.0	2996.9
65°	4560.6	4778.5	4981.9	2749.9	2691.8
67.5°	3999.0	4216.9	3316.4	2444.9	2391.7
70°	3422.9	3626.2	2057.6	2130.2	2101.2
72.5°	2841.9	3035.6	1767.1	1849.4	1810.7
75°	2265.8	2464.3	1452.4	1491.2	1074.8
77.5°	1728.4	1699.3	1171.6	823.0	368.0
80°	1176.5	784.3	653.6	343.7	338.9
82.5°	731.1	527.7	276.0	305.0	300.2
85°	329.2	246.9	222.7	237.2	217.9
87.5°	116.2	121.0	135.6	125.9	116.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)