

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-LD5-10-N-TWB-UNV-L850-CD1-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-LD5-10-N-TWB-UNV-L850-CD1-U  
Description: Metalux 8' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

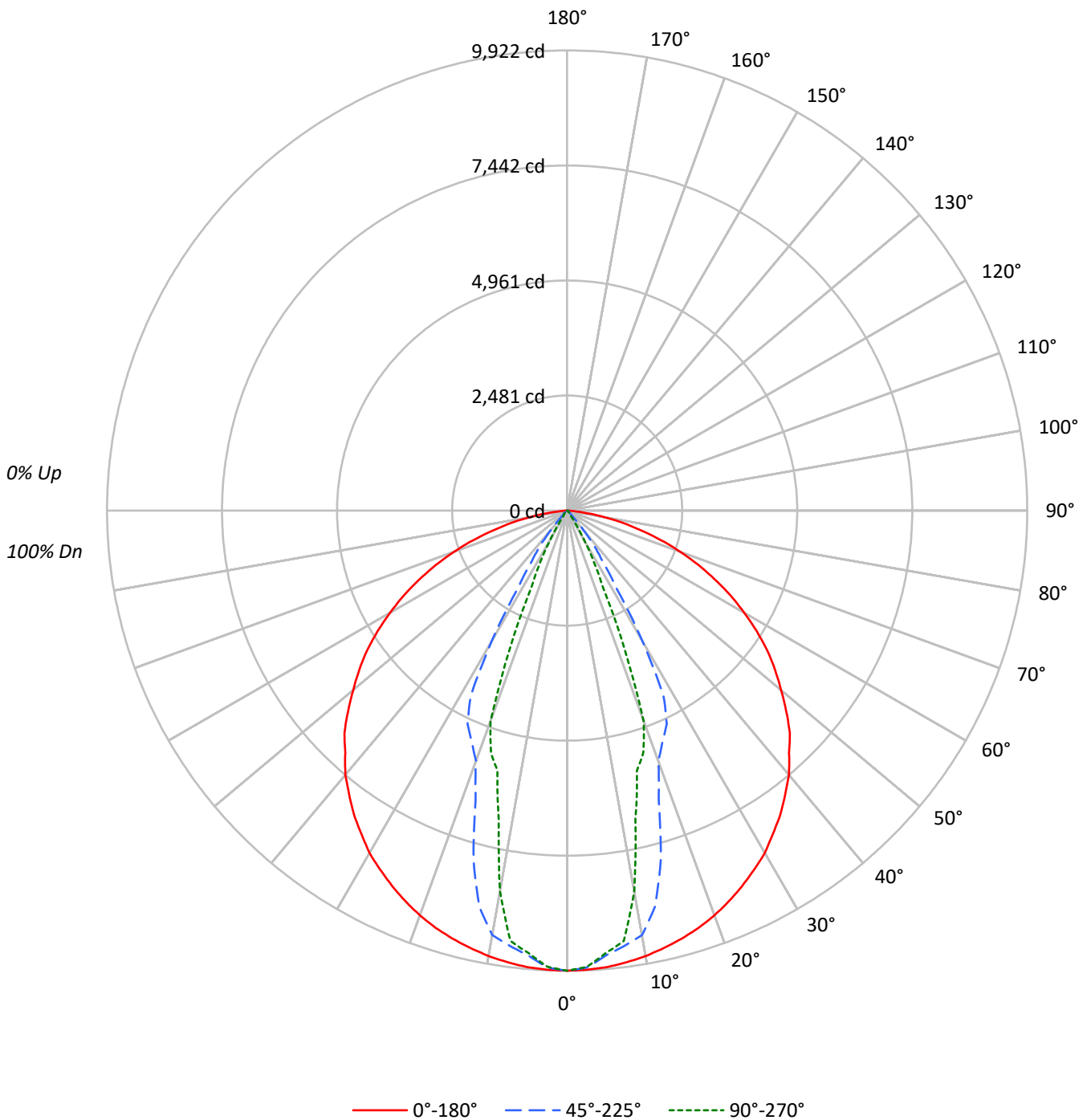
Lumens per Lamp: N/A  
Luminaire Lumens: 9980.0 lumens  
Efficiency: N/A  
Efficacy: 149.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 67  
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81				81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48				48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41				41

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

	0°	45°	90°
0°	14564	14564	14564
5°	14542	14077	13976
10°	14506	13642	12179
15°	14470	11585	8576
20°	14441	8703	7251
25°	14376	7914	2815
30°	14343	5242	1200
35°	14228	2232	265
40°	14105	985	189
45°	13925	236	88
50°	13550	146	47
55°	13257	93	48
60°	12670	84	50
65°	11888	87	53
70°	10760	92	57
75°	8934	107	63
80°	6470	124	57
85°	2185	133	70



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	911.5	9.1
10°-20°	2175.5	21.8
20°-30°	2378.6	23.8
30°-40°	1721.4	17.2
40°-50°	1284.7	12.9
50°-60°	750.2	7.5
60°-70°	466.3	4.7
70°-80°	243.2	2.4
80°-90°	48.6	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°	5465.6	54.8
0°-40°	7187.0	72.0
0°-60°	9221.8	92.4
0°-90°	9980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9980.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9922	9922	9922	9922	9922	
5°	9880	9844	9626	9596	9576	939
15°	9554	9218	7799	6099	5808	2698
25°	8928	7579	5082	2650	1827	4118
35°	8010	4886	1321	286	159	5008
45°	6792	3193	123	84	47	5215
55°	5273	618	41	47	22	4694
65°	3515	52	30	28	19	3475
75°	1649	31	25	20	16	1767
85°	148	20	16	14	9	281
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9922.5	9922.5	9922.5	9922.5	9922.5
2.5°	9906.9	9919.4	9860.1	9860.1	9842.9
5°	9880.4	9844.5	9625.9	9596.2	9575.9
7.5°	9822.6	9682.1	9468.2	9429.2	9362.0
10°	9753.9	9507.2	9291.8	8735.9	8328.4
12.5°	9657.1	9362.0	8751.5	7374.4	6809.2
15°	9554.1	9218.4	7799.1	6098.7	5808.3
17.5°	9432.3	9027.9	6560.9	5592.9	5467.9
20°	9287.1	8718.7	5745.9	5244.7	4826.2
22.5°	9116.9	8239.4	5377.4	4359.4	3230.5
25°	8928.0	7578.9	5082.3	2649.7	1826.8
27.5°	8729.7	6798.2	4498.3	1609.8	1247.5
30°	8523.6	5995.7	3246.1	1153.9	752.6
32.5°	8259.7	5339.9	1968.9	649.5	335.7
35°	8009.9	4885.5	1320.9	285.7	159.3
37.5°	7721.0	4571.7	964.9	151.5	112.4
40°	7438.4	4265.7	551.2	114.0	107.7
42.5°	7082.4	3884.7	232.6	107.7	76.5
45°	6792.0	3193.0	123.3	84.3	46.8
47.5°	6407.9	2185.9	82.8	65.6	29.7
50°	6022.2	1350.6	70.3	51.5	23.4
52.5°	5655.3	894.7	51.5	48.4	21.9
55°	5272.8	618.3	40.6	46.8	21.9
57.5°	4848.1	304.5	34.4	45.3	20.3
60°	4409.3	118.7	32.8	43.7	20.3
62.5°	3975.3	65.6	31.2	35.9	18.7
65°	3514.7	51.5	29.7	28.1	18.7
67.5°	3058.7	42.2	28.1	26.5	18.7
70°	2593.4	37.5	26.5	23.4	17.2
72.5°	2118.8	34.4	25.0	23.4	15.6
75°	1648.8	31.2	25.0	20.3	15.6
77.5°	1233.5	29.7	23.4	20.3	12.5
80°	819.7	26.5	21.9	17.2	10.9
82.5°	452.8	25.0	18.7	15.6	10.9
85°	148.3	20.3	15.6	14.1	9.4
87.5°	23.4	14.1	12.5	12.5	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)