

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: **4ILED-LD5-11-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: 4ILED-LD5-11-N-TWB-UNV-L850-CD1-U  
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

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

**Summary**

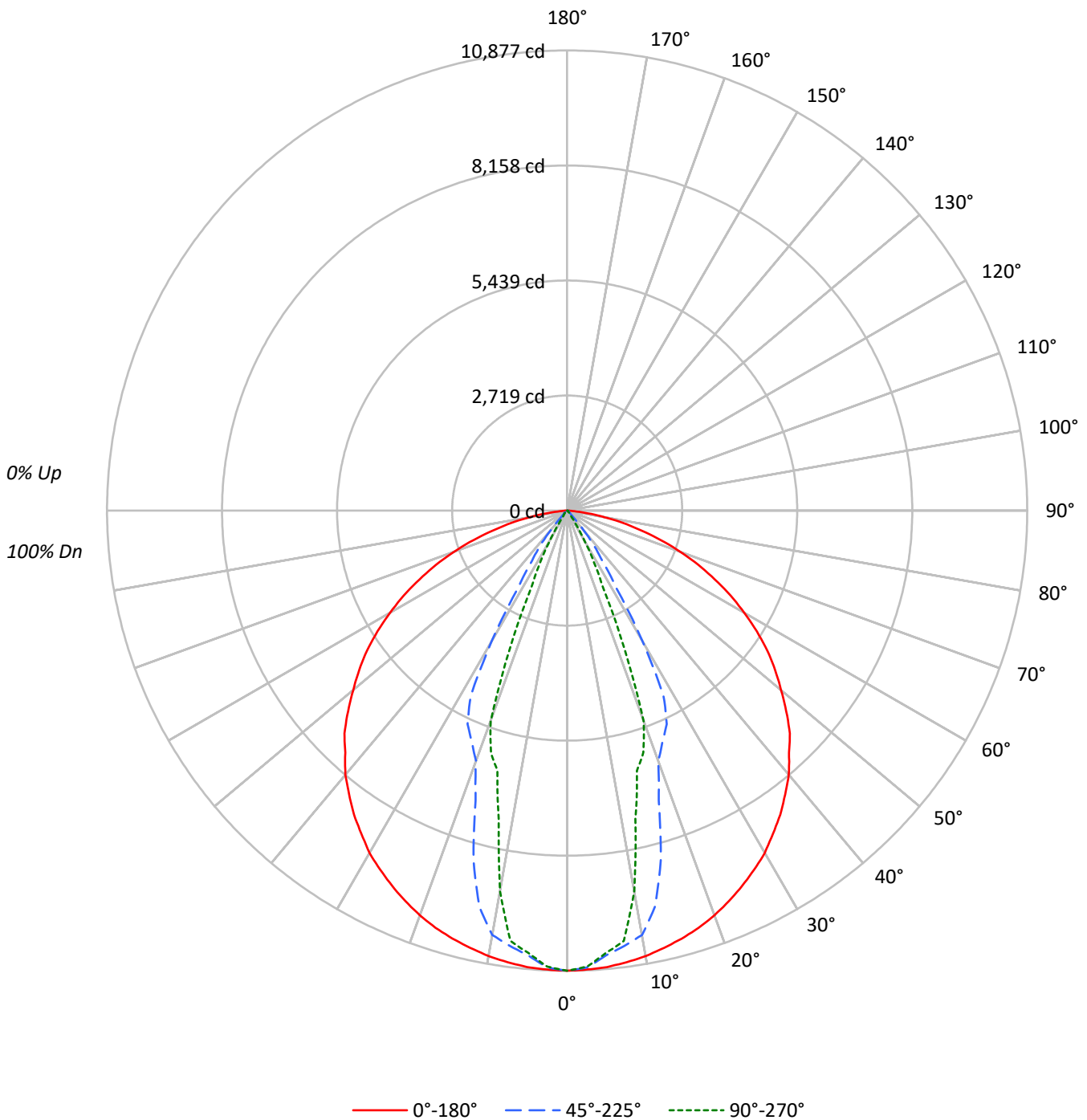
Lumens per Lamp: N/A  
Luminaire Lumens: 10940.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 83.9  
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					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	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°	31931	31931	31931
5°	31847	30838	30641
10°	31732	29863	26701
15°	31618	25339	18801
20°	31517	19021	15896
25°	31335	17282	6172
30°	31222	11436	2631
35°	30925	4866	581
40°	30605	2145	415
45°	30156	513	192
50°	29277	316	104
55°	28563	201	106
60°	27201	181	110
65°	25400	188	115
70°	22833	198	124
75°	18751	230	138
80°	13305	264	125
85°	4260	276	154



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	999.2	9.1
10°-20°	2384.7	21.8
20°-30°	2607.4	23.8
30°-40°	1887.0	17.2
40°-50°	1408.3	12.9
50°-60°	822.3	7.5
60°-70°	511.2	4.7
70°-80°	266.6	2.4
80°-90°	53.3	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°	5991.3	54.8
0°-40°	7878.3	72.0
0°-60°	10108.9	92.4
0°-90°	10940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10940.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10877	10877	10877	10877	10877	
5°	10831	10791	10552	10519	10497	###
15°	10473	10105	8549	6685	6367	2957
25°	9787	8308	5571	2904	2002	4515
35°	8780	5356	1448	313	175	5490
45°	7445	3500	135	92	51	5717
55°	5780	678	44	51	24	5146
65°	3853	56	32	31	20	3809
75°	1807	34	27	22	17	1937
85°	163	22	17	15	10	308
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10877.0	10877.0	10877.0	10877.0	10877.0
2.5°	10859.9	10873.6	10808.6	10808.6	10789.7
5°	10830.8	10791.4	10551.8	10519.3	10497.1
7.5°	10767.5	10613.4	10379.0	10336.2	10262.6
10°	10692.2	10421.7	10185.5	9576.2	9129.5
12.5°	10586.1	10262.6	9593.3	8083.7	7464.2
15°	10473.1	10105.1	8549.3	6685.4	6367.0
17.5°	10339.6	9896.3	7192.0	6130.8	5993.9
20°	10180.4	9557.4	6298.6	5749.2	5290.5
22.5°	9993.9	9031.9	5894.6	4778.7	3541.2
25°	9786.8	8308.0	5571.2	2904.5	2002.5
27.5°	9569.4	7452.2	4931.0	1764.6	1367.5
30°	9343.5	6572.4	3558.4	1264.8	825.0
32.5°	9054.2	5853.6	2158.3	712.0	368.0
35°	8780.3	5355.5	1448.0	313.2	174.6
37.5°	8463.7	5011.5	1057.7	166.0	123.2
40°	8153.9	4676.0	604.2	124.9	118.1
42.5°	7763.7	4258.4	255.0	118.1	83.9
45°	7445.3	3500.2	135.2	92.4	51.3
47.5°	7024.3	2396.2	90.7	71.9	32.5
50°	6601.5	1480.5	77.0	56.5	25.7
52.5°	6199.3	980.7	56.5	53.1	24.0
55°	5780.0	677.8	44.5	51.3	24.0
57.5°	5314.4	333.8	37.7	49.6	22.3
60°	4833.5	130.1	35.9	47.9	22.3
62.5°	4357.7	71.9	34.2	39.4	20.5
65°	3852.7	56.5	32.5	30.8	20.5
67.5°	3353.0	46.2	30.8	29.1	20.5
70°	2842.9	41.1	29.1	25.7	18.8
72.5°	2322.6	37.7	27.4	25.7	17.1
75°	1807.4	34.2	27.4	22.3	17.1
77.5°	1352.1	32.5	25.7	22.3	13.7
80°	898.6	29.1	24.0	18.8	12.0
82.5°	496.4	27.4	20.5	17.1	12.0
85°	162.6	22.3	17.1	15.4	10.3
87.5°	25.7	15.4	13.7	13.7	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)