

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-LD5-5-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-LD5-5-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**

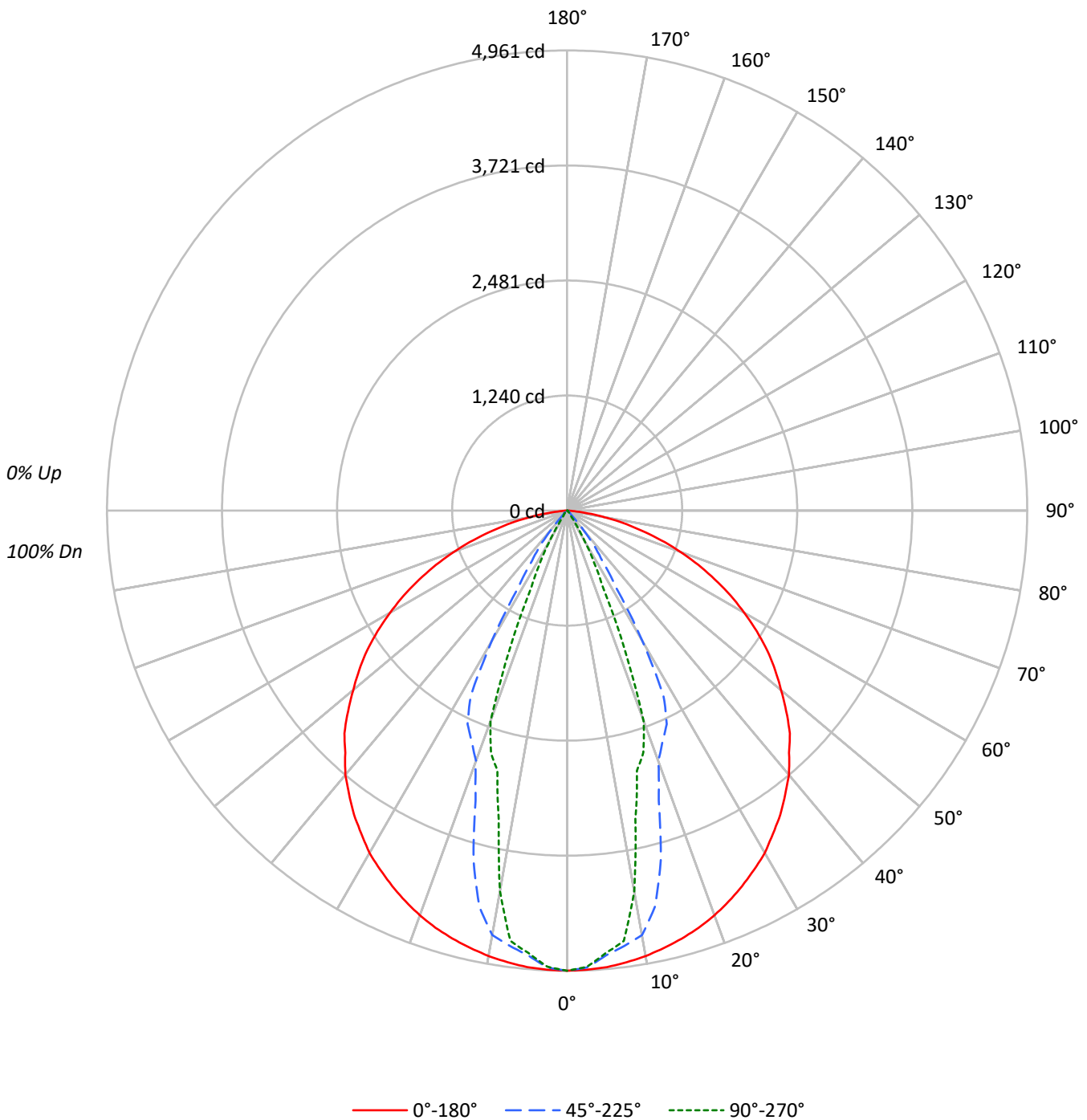
Lumens per Lamp: N/A  
Luminaire Lumens: 4990.0 lumens  
Efficiency: N/A  
Efficacy: 149.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 33.5  
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	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°	14526	14066	13976
10°	14474	13621	12179
15°	14422	11558	8576
20°	14376	8676	7251
25°	14293	7882	2815
30°	14241	5216	1200
35°	14106	2220	265
40°	13960	978	189
45°	13755	234	88
50°	13354	144	47
55°	13028	92	48
60°	12407	83	50
65°	11586	85	53
70°	10414	91	57
75°	8553	105	63
80°	6069	120	57
85°	1944	126	70



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.7	9.1
10°-20°	1087.7	21.8
20°-30°	1189.3	23.8
30°-40°	860.7	17.2
40°-50°	642.3	12.9
50°-60°	375.1	7.5
60°-70°	233.2	4.7
70°-80°	121.6	2.4
80°-90°	24.3	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°	2732.8	54.8
0°-40°	3593.5	72.0
0°-60°	4610.9	92.4
0°-90°	4990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4990.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4961	4961	4961	4961	4961	
5°	4940	4922	4813	4798	4788	469
15°	4777	4609	3900	3049	2904	1349
25°	4464	3790	2541	1325	913	2059
35°	4005	2443	660	143	80	2504
45°	3396	1596	62	42	23	2608
55°	2636	309	20	23	11	2347
65°	1757	26	15	14	9	1738
75°	824	16	12	10	8	884
85°	74	10	8	7	5	141
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4961.3	4961.3	4961.3	4961.3	4961.3
2.5°	4953.5	4959.7	4930.0	4930.0	4921.5
5°	4940.2	4922.2	4812.9	4798.1	4788.0
7.5°	4911.3	4841.0	4734.1	4714.6	4681.0
10°	4877.0	4753.6	4645.9	4368.0	4164.2
12.5°	4828.6	4681.0	4375.8	3687.2	3404.6
15°	4777.0	4609.2	3899.5	3049.4	2904.2
17.5°	4716.1	4513.9	3280.5	2796.4	2734.0
20°	4643.5	4359.4	2872.9	2622.3	2413.1
22.5°	4558.4	4119.7	2688.7	2179.7	1615.2
25°	4464.0	3789.5	2541.1	1324.8	913.4
27.5°	4364.8	3399.1	2249.2	804.9	623.8
30°	4261.8	2997.8	1623.1	576.9	376.3
32.5°	4129.8	2670.0	984.4	324.8	167.8
35°	4004.9	2442.8	660.5	142.9	79.6
37.5°	3860.5	2285.9	482.5	75.7	56.2
40°	3719.2	2132.8	275.6	57.0	53.9
42.5°	3541.2	1942.4	116.3	53.9	38.3
45°	3396.0	1596.5	61.7	42.2	23.4
47.5°	3203.9	1093.0	41.4	32.8	14.8
50°	3011.1	675.3	35.1	25.8	11.7
52.5°	2827.7	447.3	25.8	24.2	10.9
55°	2636.4	309.2	20.3	23.4	10.9
57.5°	2424.0	152.2	17.2	22.6	10.1
60°	2204.7	59.3	16.4	21.9	10.1
62.5°	1987.6	32.8	15.6	18.0	9.4
65°	1757.3	25.8	14.8	14.1	9.4
67.5°	1529.4	21.1	14.1	13.3	9.4
70°	1296.7	18.7	13.3	11.7	8.6
72.5°	1059.4	17.2	12.5	11.7	7.8
75°	824.4	15.6	12.5	10.1	7.8
77.5°	616.7	14.8	11.7	10.1	6.2
80°	409.9	13.3	10.9	8.6	5.5
82.5°	226.4	12.5	9.4	7.8	5.5
85°	74.2	10.1	7.8	7.0	4.7
87.5°	11.7	7.0	6.2	6.2	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)