

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-LD5-9-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-LD5-9-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**

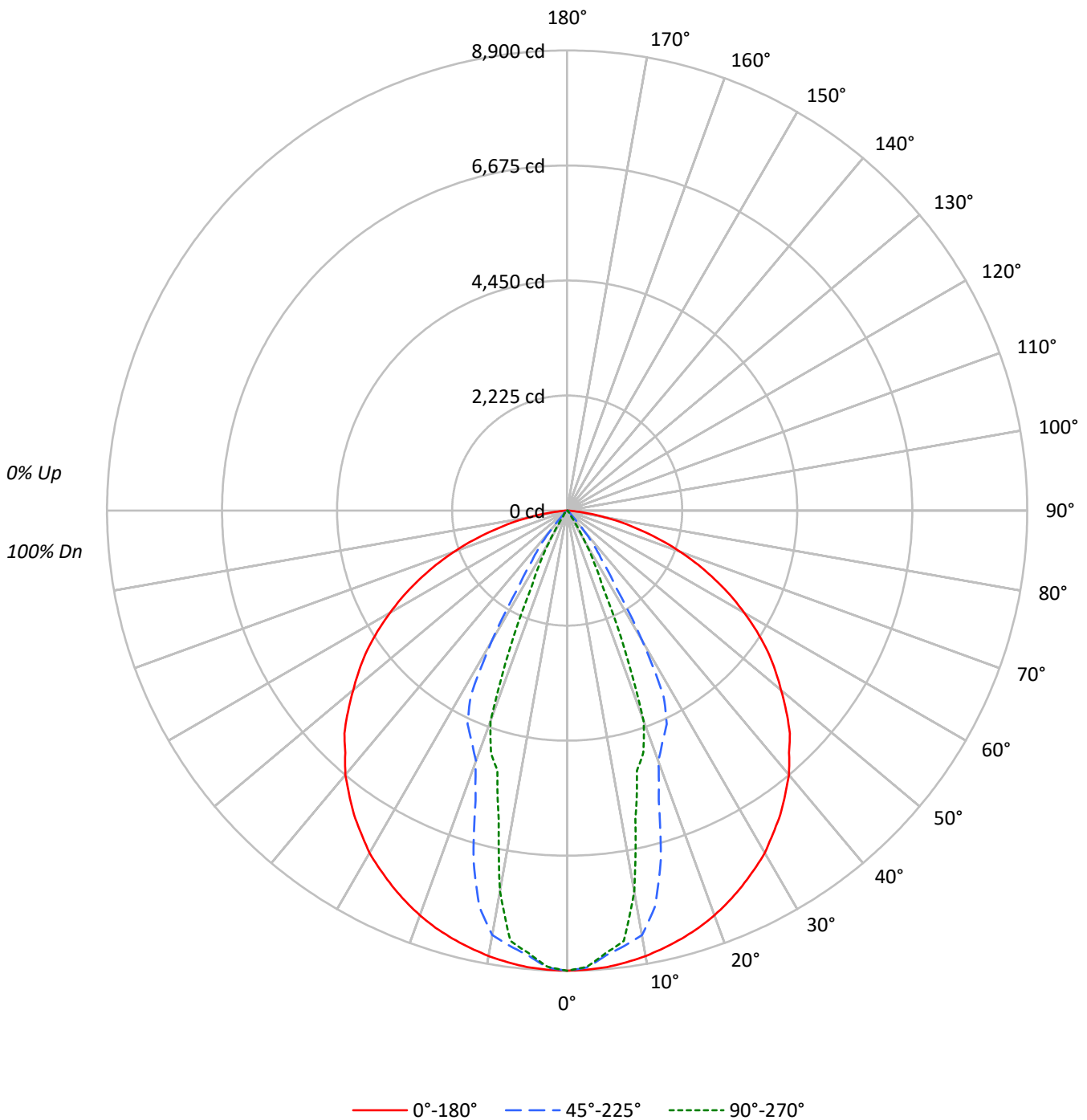
Lumens per Lamp: N/A  
Luminaire Lumens: 8952.0 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 65.7  
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°	26128	26128	26128
5°	26060	25235	25072
10°	25966	24436	21849
15°	25872	20734	15384
20°	25790	15564	13008
25°	25641	14141	5051
30°	25548	9358	2153
35°	25305	3982	476
40°	25044	1755	339
45°	24676	419	157
50°	23957	259	85
55°	23372	164	87
60°	22258	148	90
65°	20784	154	95
70°	18684	162	102
75°	15344	188	113
80°	10887	215	102
85°	3487	226	126



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	817.6	9.1
10°-20°	1951.4	21.8
20°-30°	2133.6	23.8
30°-40°	1544.1	17.2
40°-50°	1152.3	12.9
50°-60°	672.9	7.5
60°-70°	418.3	4.7
70°-80°	218.2	2.4
80°-90°	43.6	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°	4902.6	54.8
0°-40°	6446.7	72.0
0°-60°	8271.9	92.4
0°-90°	8952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8900	8900	8900	8900	8900	
5°	8863	8830	8634	8608	8590	842
15°	8570	8269	6996	5470	5210	2420
25°	8008	6798	4559	2377	1639	3694
35°	7185	4382	1185	256	143	4492
45°	6092	2864	111	76	42	4678
55°	4730	555	36	42	20	4211
65°	3153	46	27	25	17	3117
75°	1479	28	22	18	14	1585
85°	133	18	14	13	8	252
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8900.5	8900.5	8900.5	8900.5	8900.5
2.5°	8886.5	8897.7	8844.4	8844.4	8829.0
5°	8862.7	8830.4	8634.4	8607.8	8589.5
7.5°	8810.8	8684.8	8492.9	8457.9	8397.7
10°	8749.2	8527.9	8334.6	7836.1	7470.5
12.5°	8662.4	8397.7	7850.1	6614.8	6107.8
15°	8569.9	8268.8	6995.7	5470.5	5210.0
17.5°	8460.7	8098.0	5885.1	5016.8	4904.7
20°	8330.4	7820.6	5154.0	4704.4	4329.1
22.5°	8177.8	7390.7	4823.5	3910.3	2897.7
25°	8008.3	6798.2	4558.8	2376.7	1638.6
27.5°	7830.4	6098.0	4035.0	1444.0	1119.0
30°	7645.6	5378.1	2911.7	1035.0	675.1
32.5°	7408.9	4789.9	1766.1	582.6	301.1
35°	7184.8	4382.3	1184.9	256.3	142.9
37.5°	6925.7	4100.8	865.5	135.9	100.8
40°	6672.2	3826.3	494.4	102.2	96.6
42.5°	6352.9	3484.6	208.7	96.6	68.6
45°	6092.4	2864.1	110.6	75.6	42.0
47.5°	5747.8	1960.8	74.2	58.8	26.6
50°	5401.9	1211.5	63.0	46.2	21.0
52.5°	5072.8	802.5	46.2	43.4	19.6
55°	4729.6	554.6	36.4	42.0	19.6
57.5°	4348.7	273.1	30.8	40.6	18.2
60°	3955.1	106.4	29.4	39.2	18.2
62.5°	3565.8	58.8	28.0	32.2	16.8
65°	3152.6	46.2	26.6	25.2	16.8
67.5°	2743.7	37.8	25.2	23.8	16.8
70°	2326.3	33.6	23.8	21.0	15.4
72.5°	1900.5	30.8	22.4	21.0	14.0
75°	1479.0	28.0	22.4	18.2	14.0
77.5°	1106.4	26.6	21.0	18.2	11.2
80°	735.3	23.8	19.6	15.4	9.8
82.5°	406.2	22.4	16.8	14.0	9.8
85°	133.1	18.2	14.0	12.6	8.4
87.5°	21.0	12.6	11.2	11.2	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)