

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-L835-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-L835-CD1-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

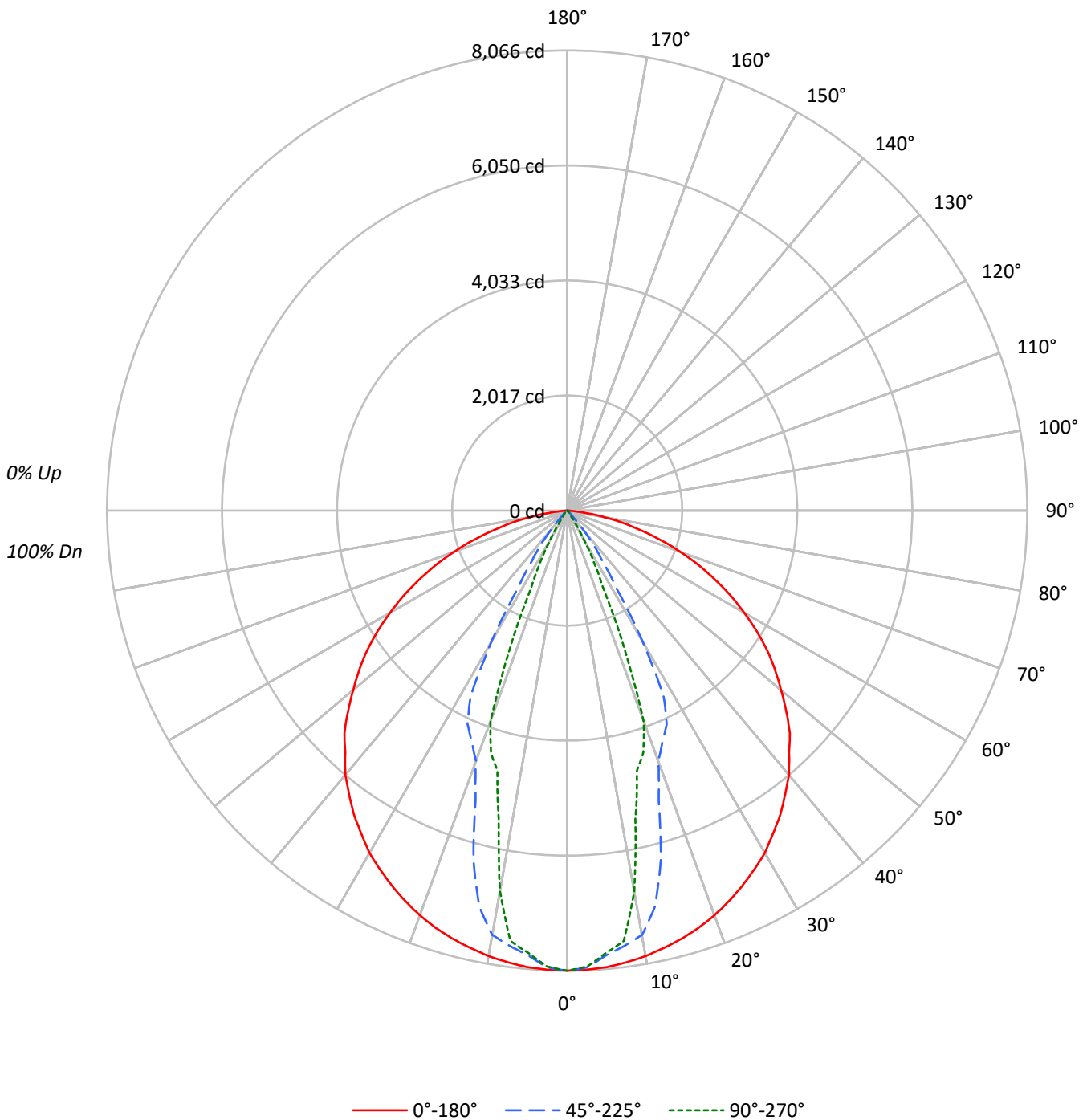
Lumens per Lamp: N/A
Luminaire Lumens: 8113.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
Input Voltage (V):
Input Current (A_{in}): 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°	23680	23680	23680
5°	23617	22869	22723
10°	23532	22146	19801
15°	23447	18791	13942
20°	23373	14105	11789
25°	23238	12816	4578
30°	23153	8481	1951
35°	22934	3609	431
40°	22697	1591	308
45°	22363	380	143
50°	21711	234	77
55°	21182	149	79
60°	20172	135	81
65°	18837	139	86
70°	16933	147	92
75°	13906	170	102
80°	9867	196	93
85°	3159	205	114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.0	9.1
10°-20°	1768.5	21.8
20°-30°	1933.7	23.8
30°-40°	1399.4	17.2
40°-50°	1044.3	12.9
50°-60°	609.8	7.5
60°-70°	379.1	4.7
70°-80°	197.7	2.4
80°-90°	39.5	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°	4443.1	54.8
0°-40°	5842.5	72.0
0°-60°	7496.7	92.4
0°-90°	8113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8066	8066	8066	8066	8066	
5°	8032	8003	7825	7801	7784	763
15°	7767	7494	6340	4958	4722	2193
25°	7258	6161	4132	2154	1485	3348
35°	6511	3972	1074	232	130	4071
45°	5521	2596	100	68	38	4240
55°	4286	503	33	38	18	3816
65°	2857	42	24	23	15	2825
75°	1340	25	20	16	13	1437
85°	121	16	13	11	8	228
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8066.3	8066.3	8066.3	8066.3	8066.3
2.5°	8053.6	8063.8	8015.5	8015.5	8001.6
5°	8032.0	8002.8	7825.1	7801.0	7784.5
7.5°	7985.1	7870.8	7696.9	7665.2	7610.6
10°	7929.2	7728.7	7553.5	7101.6	6770.4
12.5°	7850.5	7610.6	7114.3	5994.8	5535.3
15°	7766.7	7493.8	6340.1	4957.8	4721.7
17.5°	7667.7	7339.0	5333.5	4546.6	4445.0
20°	7549.7	7087.7	4671.0	4263.5	3923.4
22.5°	7411.3	6698.0	4371.4	3543.8	2626.1
25°	7257.8	6161.1	4131.5	2154.0	1485.1
27.5°	7096.6	5526.5	3656.8	1308.6	1014.2
30°	6929.0	4874.0	2638.8	938.0	611.8
32.5°	6714.5	4340.9	1600.6	528.0	272.9
35°	6511.4	3971.6	1073.8	232.3	129.5
37.5°	6276.6	3716.5	784.4	123.1	91.4
40°	6046.9	3467.7	448.1	92.7	87.6
42.5°	5757.5	3158.0	189.1	87.6	62.2
45°	5521.4	2595.7	100.3	68.5	38.1
47.5°	5209.1	1777.0	67.3	53.3	24.1
50°	4895.6	1097.9	57.1	41.9	19.0
52.5°	4597.3	727.3	41.9	39.3	17.8
55°	4286.4	502.6	33.0	38.1	17.8
57.5°	3941.1	247.5	27.9	36.8	16.5
60°	3584.5	96.5	26.7	35.5	16.5
62.5°	3231.6	53.3	25.4	29.2	15.2
65°	2857.2	41.9	24.1	22.8	15.2
67.5°	2486.5	34.3	22.8	21.6	15.2
70°	2108.3	30.5	21.6	19.0	14.0
72.5°	1722.4	27.9	20.3	19.0	12.7
75°	1340.4	25.4	20.3	16.5	12.7
77.5°	1002.7	24.1	19.0	16.5	10.2
80°	666.4	21.6	17.8	14.0	8.9
82.5°	368.1	20.3	15.2	12.7	8.9
85°	120.6	16.5	12.7	11.4	7.6
87.5°	19.0	11.4	10.2	10.2	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)