

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-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-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

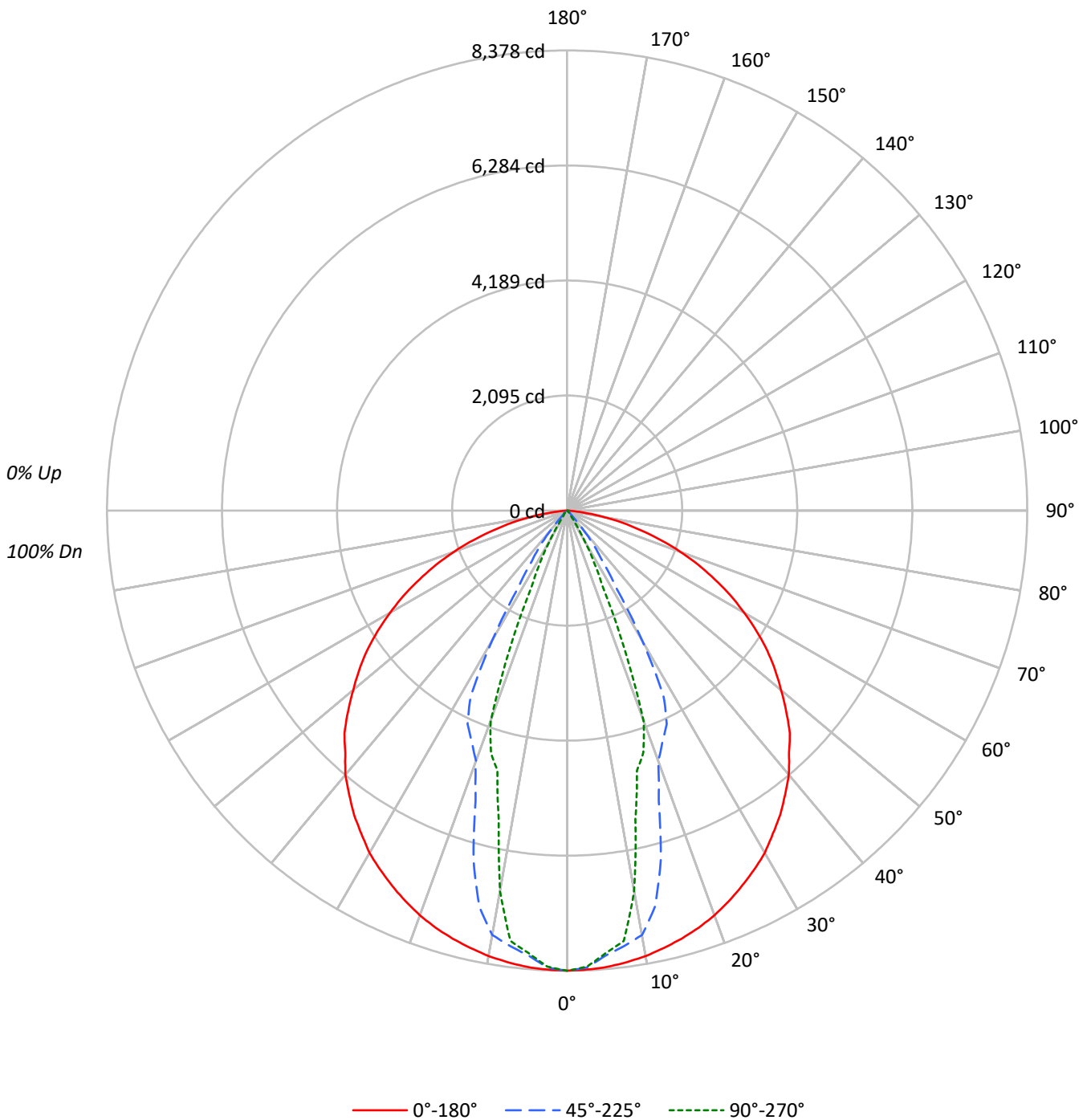
Lumens per Lamp: N/A
Luminaire Lumens: 8426.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
Input Voltage (V):
Input Current (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°	24593	24593	24593
5°	24528	23752	23599
10°	24440	23000	20565
15°	24352	19516	14481
20°	24275	14650	12243
25°	24134	13310	4754
30°	24047	8808	2026
35°	23818	3748	448
40°	23572	1652	319
45°	23226	395	148
50°	22549	243	80
55°	21999	155	82
60°	20950	140	84
65°	19563	144	89
70°	17586	153	96
75°	14442	177	106
80°	10247	203	96
85°	3280	213	118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.6	9.1
10°-20°	1836.7	21.8
20°-30°	2008.3	23.8
30°-40°	1453.4	17.2
40°-50°	1084.6	12.9
50°-60°	633.3	7.5
60°-70°	393.7	4.7
70°-80°	205.4	2.4
80°-90°	41.0	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°	4614.5	54.8
0°-40°	6067.9	72.0
0°-60°	7785.9	92.4
0°-90°	8426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8378	8378	8378	8378	8378	
5°	8342	8312	8127	8102	8085	793
15°	8066	7783	6585	5149	4904	2278
25°	7538	6399	4291	2237	1542	3477
35°	6763	4125	1115	241	134	4228
45°	5734	2696	104	71	40	4403
55°	4452	522	34	40	18	3963
65°	2967	44	25	24	16	2934
75°	1392	26	21	17	13	1492
85°	125	17	13	12	8	237
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8377.5	8377.5	8377.5	8377.5	8377.5
2.5°	8364.3	8374.9	8324.8	8324.8	8310.3
5°	8341.9	8311.6	8127.0	8102.0	8084.8
7.5°	8293.1	8174.5	7993.9	7960.9	7904.2
10°	8235.1	8026.8	7844.9	7375.6	7031.6
12.5°	8153.4	7904.2	7388.8	6226.1	5748.9
15°	8066.4	7783.0	6584.7	5149.1	4903.9
17.5°	7963.6	7622.1	5539.3	4722.0	4616.5
20°	7841.0	7361.1	4851.2	4428.0	4074.7
22.5°	7697.3	6956.4	4540.1	3680.6	2727.5
25°	7537.8	6398.8	4290.9	2237.1	1542.4
27.5°	7370.3	5739.7	3797.9	1359.1	1053.3
30°	7196.3	5062.1	2740.6	974.2	635.4
32.5°	6973.6	4508.4	1662.3	548.4	283.4
35°	6762.6	4124.8	1115.2	241.2	134.5
37.5°	6518.8	3859.8	814.7	127.9	94.9
40°	6280.2	3601.5	465.3	96.2	91.0
42.5°	5979.6	3279.8	196.4	91.0	64.6
45°	5734.4	2695.8	104.1	71.2	39.5
47.5°	5410.1	1845.6	69.9	55.4	25.0
50°	5084.5	1140.3	59.3	43.5	19.8
52.5°	4774.7	755.4	43.5	40.9	18.5
55°	4451.7	522.0	34.3	39.5	18.5
57.5°	4093.2	257.1	29.0	38.2	17.1
60°	3722.7	100.2	27.7	36.9	17.1
62.5°	3356.3	55.4	26.4	30.3	15.8
65°	2967.4	43.5	25.0	23.7	15.8
67.5°	2582.5	35.6	23.7	22.4	15.8
70°	2189.6	31.6	22.4	19.8	14.5
72.5°	1788.9	29.0	21.1	19.8	13.2
75°	1392.1	26.4	21.1	17.1	13.2
77.5°	1041.4	25.0	19.8	17.1	10.5
80°	692.1	22.4	18.5	14.5	9.2
82.5°	382.3	21.1	15.8	13.2	9.2
85°	125.2	17.1	13.2	11.9	7.9
87.5°	19.8	11.9	10.5	10.5	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)