

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-LD5-7-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-LD5-7-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: 6598.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

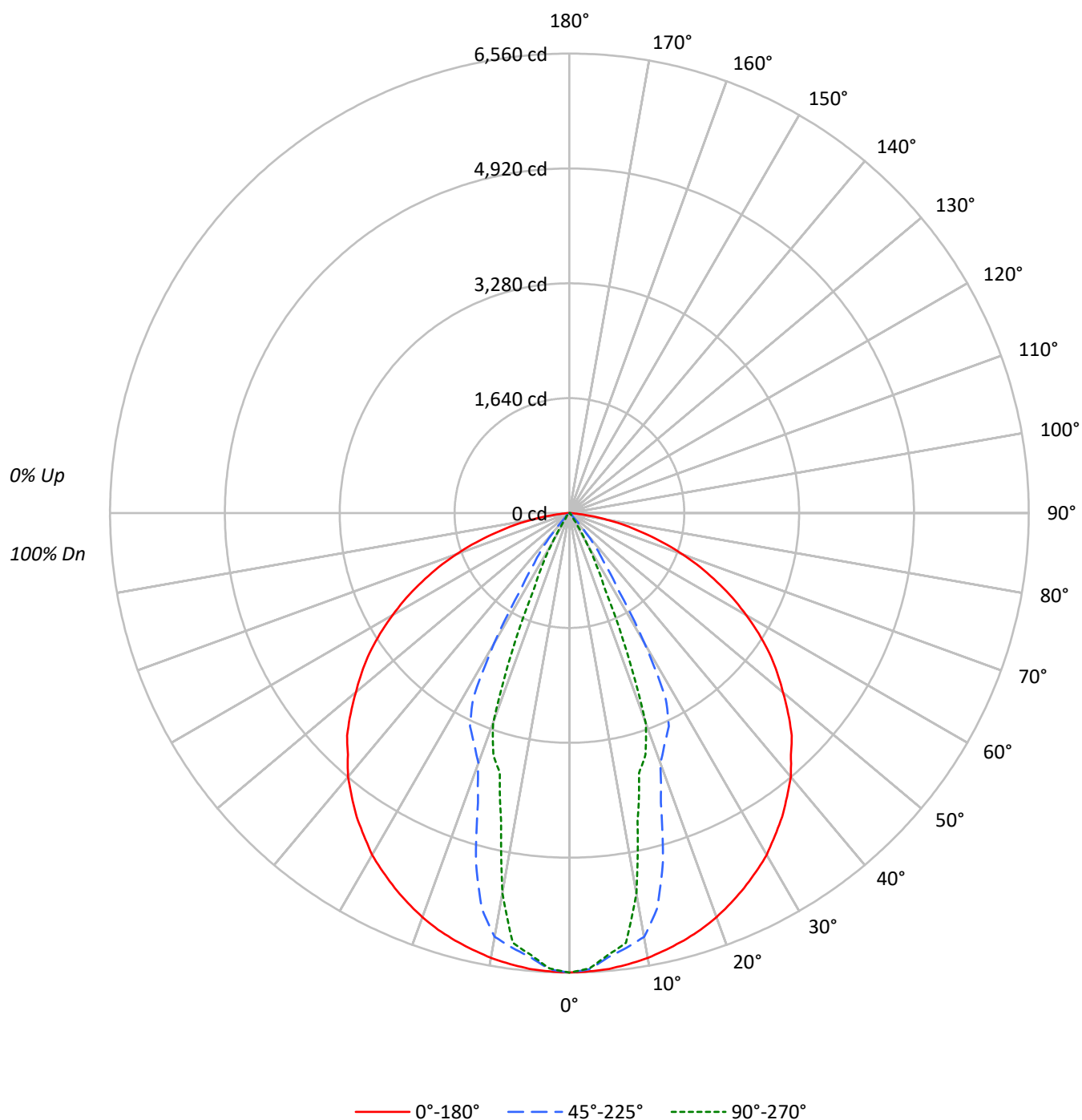
Input Watts (W): 50.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92
2	105	99	94	89	102	97	92	88		93	90	86		90	87	84		87	85	83
3	98	90	84	79	96	89	83	78		86	81	77		83	79	76		81	78	75
4	92	83	76	71	90	81	75	70		79	74	70		77	72	69		75	71	68
5	86	76	69	64	85	75	69	64		73	68	63		72	67	63		70	66	62
6	81	71	64	59	80	70	63	58		68	62	58		67	62	58		65	61	57
7	77	66	59	54	75	65	58	54		64	58	53		62	57	53		61	56	53
8	73	62	55	50	71	61	54	50		60	54	50		59	53	49		58	53	49
9	69	58	51	46	67	57	51	46		56	50	46		55	50	46		54	49	46
10	65	54	48	43	64	54	48	43		53	47	43		52	47	43		51	46	43

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19258	19258	19258
5°	19207	18599	18480
10°	19138	18011	16103
15°	19069	15282	11339
20°	19008	11471	9587
25°	18898	10423	3722
30°	18830	6897	1586
35°	18651	2935	351
40°	18458	1294	250
45°	18187	309	116
50°	17657	191	63
55°	17226	121	64
60°	16405	109	66
65°	15319	113	70
70°	13771	119	75
75°	11309	138	83
80°	8024	159	75
85°	2570	166	93



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.6	9.1
10°-20°	1438.3	21.8
20°-30°	1572.6	23.8
30°-40°	1138.1	17.2
40°-50°	849.3	12.9
50°-60°	495.9	7.5
60°-70°	308.3	4.7
70°-80°	160.8	2.4
80°-90°	32.1	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°	3613.4	54.8
0°-40°	4751.5	72.0
0°-60°	6096.8	92.4
0°-90°	6598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6560	6560	6560	6560	6560	
5°	6532	6508	6364	6344	6331	621
15°	6316	6094	5156	4032	3840	1784
25°	5902	5011	3360	1752	1208	2723
35°	5296	3230	873	189	105	3311
45°	4490	2111	82	56	31	3448
55°	3486	409	27	31	14	3104
65°	2324	34	20	19	12	2297
75°	1090	21	16	13	10	1168
85°	98	13	10	9	6	186
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6560.0	6560.0	6560.0	6560.0	6560.0
2.5°	6549.7	6558.0	6518.7	6518.7	6507.4
5°	6532.1	6508.4	6363.9	6344.3	6330.9
7.5°	6494.0	6401.0	6259.6	6233.8	6189.4
10°	6448.5	6285.4	6143.0	5775.5	5506.1
12.5°	6384.5	6189.4	5785.8	4875.4	4501.7
15°	6316.4	6094.5	5156.1	4032.0	3840.0
17.5°	6235.9	5968.5	4337.6	3697.6	3615.0
20°	6139.9	5764.1	3798.7	3467.4	3190.7
22.5°	6027.4	5447.2	3555.1	2882.1	2135.7
25°	5902.5	5010.6	3360.0	1751.7	1207.7
27.5°	5771.4	4494.5	2973.9	1064.3	824.8
30°	5635.1	3963.9	2146.1	762.8	497.5
32.5°	5460.7	3530.3	1301.7	429.4	221.9
35°	5295.5	3229.9	873.3	188.9	105.3
37.5°	5104.5	3022.5	637.9	100.1	74.3
40°	4917.7	2820.1	364.4	75.4	71.2
42.5°	4682.3	2568.3	153.8	71.2	50.6
45°	4490.3	2111.0	81.5	55.7	31.0
47.5°	4236.4	1445.2	54.7	43.4	19.6
50°	3981.4	892.9	46.5	34.1	15.5
52.5°	3738.8	591.5	34.1	32.0	14.5
55°	3485.9	408.8	26.8	31.0	14.5
57.5°	3205.2	201.3	22.7	29.9	13.4
60°	2915.1	78.5	21.7	28.9	13.4
62.5°	2628.1	43.4	20.6	23.7	12.4
65°	2323.6	34.1	19.6	18.6	12.4
67.5°	2022.2	27.9	18.6	17.5	12.4
70°	1714.6	24.8	17.5	15.5	11.4
72.5°	1400.8	22.7	16.5	15.5	10.3
75°	1090.1	20.6	16.5	13.4	10.3
77.5°	815.5	19.6	15.5	13.4	8.3
80°	541.9	17.5	14.5	11.4	7.2
82.5°	299.4	16.5	12.4	10.3	7.2
85°	98.1	13.4	10.3	9.3	6.2
87.5°	15.5	9.3	8.3	8.3	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)