

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-LD5-11-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-LD5-11-N-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

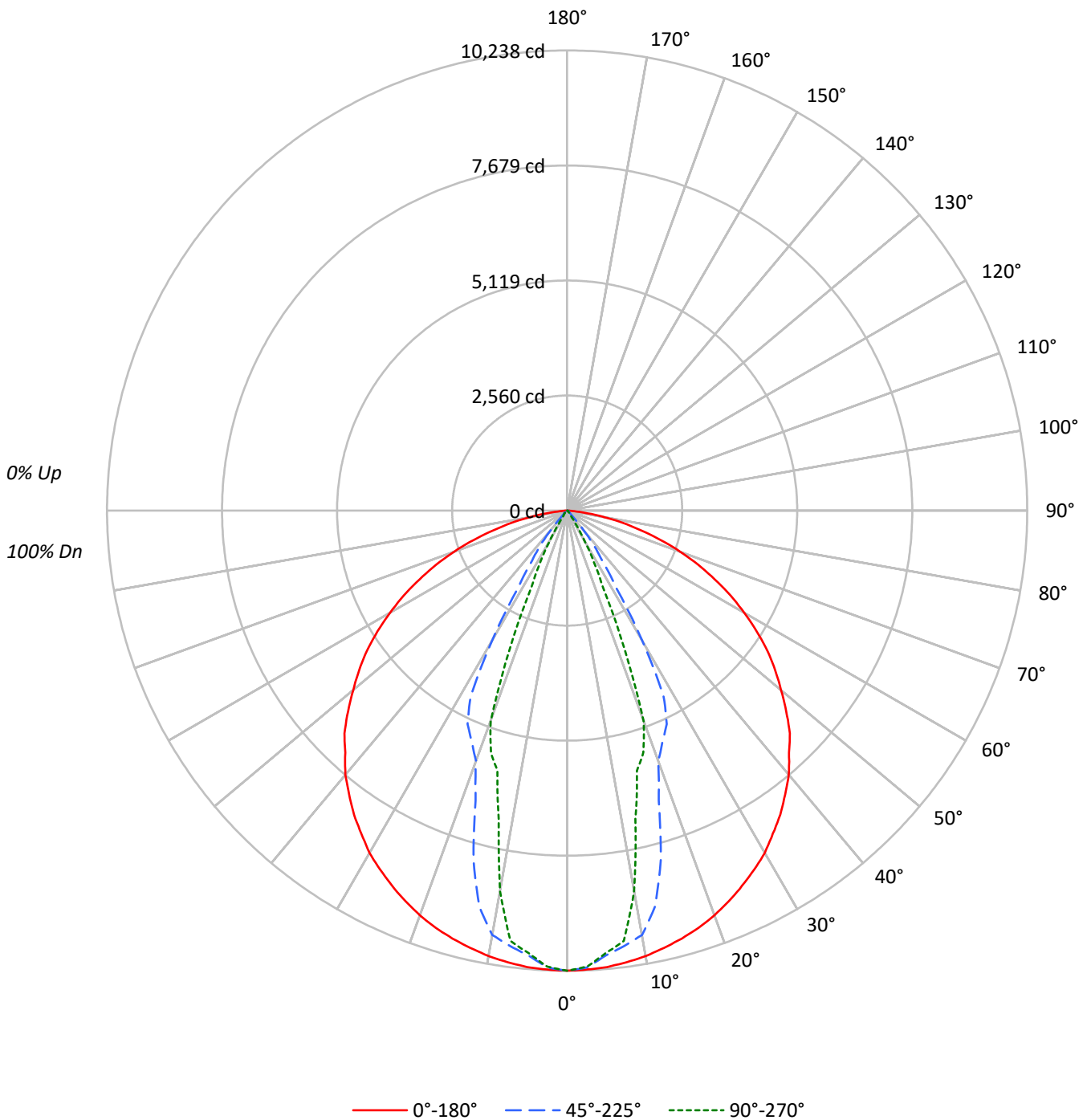
Lumens per Lamp: N/A
Luminaire Lumens: 10297.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30054	30054	30054
5°	29975	29026	28840
10°	29867	28108	25131
15°	29759	23850	17696
20°	29665	17903	14962
25°	29493	16266	5810
30°	29386	10764	2476
35°	29107	4580	547
40°	28806	2019	390
45°	28383	483	181
50°	27556	297	98
55°	26884	189	100
60°	25602	170	103
65°	23907	177	109
70°	21491	187	117
75°	17649	216	130
80°	12523	248	118
85°	4008	260	145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.4	9.1
10°-20°	2244.6	21.8
20°-30°	2454.2	23.8
30°-40°	1776.1	17.2
40°-50°	1325.5	12.9
50°-60°	774.0	7.5
60°-70°	481.2	4.7
70°-80°	251.0	2.4
80°-90°	50.1	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°	5639.2	54.8
0°-40°	7415.3	72.0
0°-60°	9514.8	92.4
0°-90°	10297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10238	10238	10238	10238	10238	
5°	10194	10157	9932	9901	9880	969
15°	9858	9511	8047	6292	5993	2784
25°	9212	7820	5244	2734	1885	4249
35°	8264	5041	1363	295	164	5167
45°	7008	3294	127	87	48	5381
55°	5440	638	42	48	23	4844
65°	3626	53	31	29	19	3585
75°	1701	32	26	21	16	1823
85°	153	21	16	14	10	290
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10237.7	10237.7	10237.7	10237.7	10237.7
2.5°	10221.6	10234.5	10173.3	10173.3	10155.6
5°	10194.2	10157.2	9931.6	9901.0	9880.1
7.5°	10134.6	9989.6	9768.9	9728.7	9659.4
10°	10063.7	9809.2	9586.9	9013.4	8592.9
12.5°	9963.9	9659.4	9029.5	7608.6	7025.4
15°	9857.5	9511.2	8046.8	6292.5	5992.8
17.5°	9731.9	9314.6	6769.3	5770.5	5641.6
20°	9582.1	8995.7	5928.4	5411.3	4979.5
22.5°	9406.5	8501.1	5548.2	4497.8	3333.1
25°	9211.5	7819.7	5243.7	2733.8	1884.8
27.5°	9006.9	7014.2	4641.2	1660.9	1287.2
30°	8794.3	6186.1	3349.2	1190.5	776.5
32.5°	8522.0	5509.5	2031.4	670.2	346.4
35°	8264.3	5040.7	1362.9	294.8	164.3
37.5°	7966.3	4716.9	995.6	156.3	116.0
40°	7674.7	4401.2	568.7	117.6	111.2
42.5°	7307.4	4008.1	240.0	111.2	78.9
45°	7007.7	3294.4	127.3	87.0	48.3
47.5°	6611.4	2255.4	85.4	67.7	30.6
50°	6213.5	1393.5	72.5	53.2	24.2
52.5°	5834.9	923.1	53.2	49.9	22.6
55°	5440.3	637.9	41.9	48.3	22.6
57.5°	5002.1	314.1	35.4	46.7	20.9
60°	4549.4	122.4	33.8	45.1	20.9
62.5°	4101.5	67.7	32.2	37.1	19.3
65°	3626.3	53.2	30.6	29.0	19.3
67.5°	3155.9	43.5	29.0	27.4	19.3
70°	2675.8	38.7	27.4	24.2	17.7
72.5°	2186.1	35.4	25.8	24.2	16.1
75°	1701.2	32.2	25.8	20.9	16.1
77.5°	1272.7	30.6	24.2	20.9	12.9
80°	845.8	27.4	22.6	17.7	11.3
82.5°	467.2	25.8	19.3	16.1	11.3
85°	153.0	20.9	16.1	14.5	9.7
87.5°	24.2	14.5	12.9	12.9	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)