

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-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-LD5-11-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

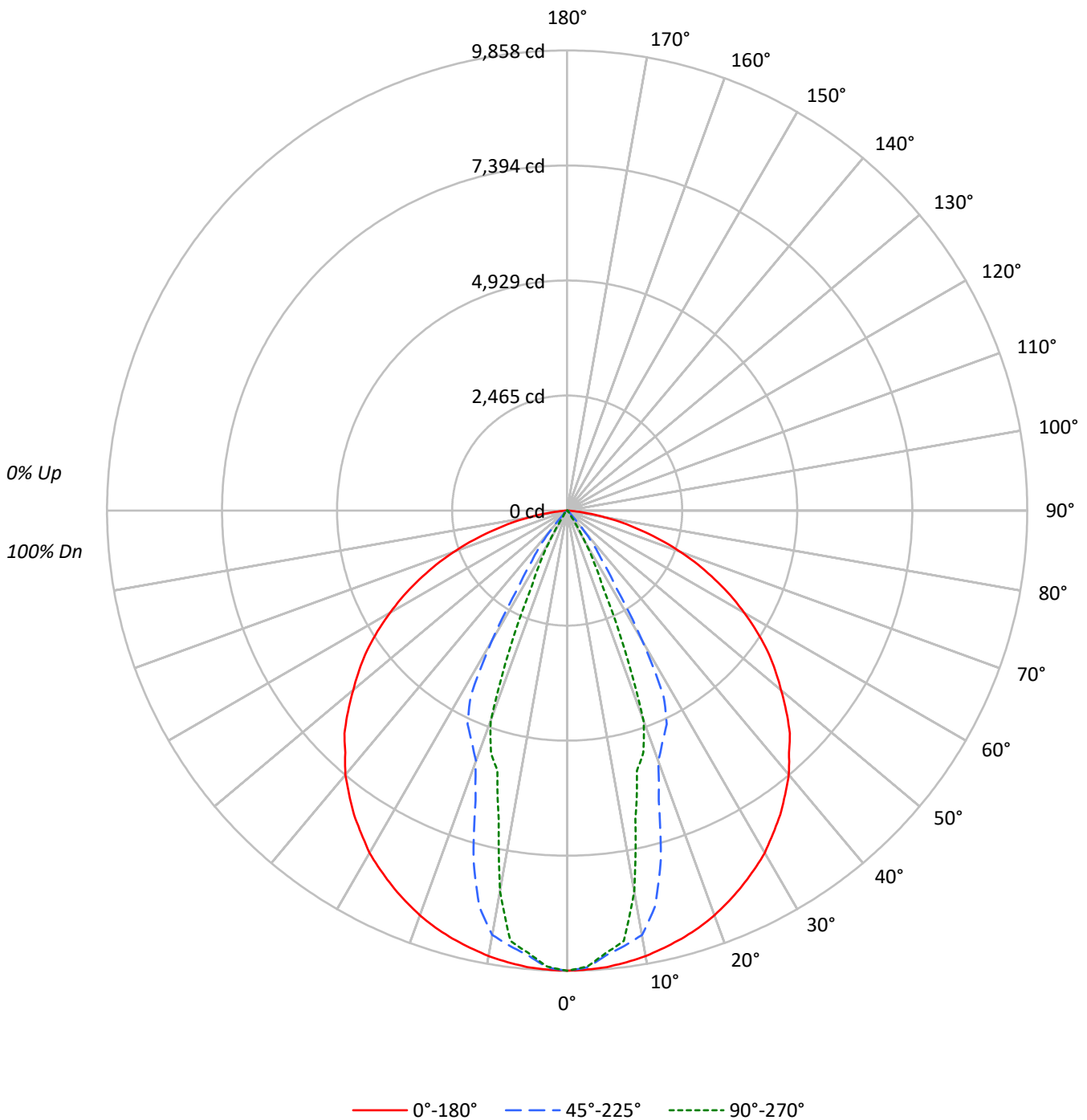
Lumens per Lamp: N/A
Luminaire Lumens: 9915.0 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
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	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°	28939	28939	28939
5°	28863	27949	27770
10°	28759	27065	24199
15°	28655	22965	17039
20°	28564	17238	14407
25°	28399	15662	5594
30°	28296	10365	2384
35°	28028	4410	527
40°	27738	1944	376
45°	27331	465	174
50°	26534	286	94
55°	25886	182	96
60°	24652	164	100
65°	23021	170	105
70°	20694	180	113
75°	16994	208	125
80°	12058	239	114
85°	3861	251	139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.5	9.1
10°-20°	2161.3	21.8
20°-30°	2363.1	23.8
30°-40°	1710.2	17.2
40°-50°	1276.3	12.9
50°-60°	745.3	7.5
60°-70°	463.3	4.7
70°-80°	241.7	2.4
80°-90°	48.3	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°	5430.0	54.8
0°-40°	7140.2	72.0
0°-60°	9161.8	92.4
0°-90°	9915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9858	9858	9858	9858	9858	
5°	9816	9780	9563	9534	9514	933
15°	9492	9158	7748	6059	5770	2680
25°	8870	7530	5049	2632	1815	4092
35°	7958	4854	1312	284	158	4975
45°	6748	3172	122	84	46	5181
55°	5238	614	40	46	22	4664
65°	3492	51	30	28	19	3452
75°	1638	31	25	20	16	1756
85°	147	20	16	14	9	279
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9857.9	9857.9	9857.9	9857.9	9857.9
2.5°	9842.4	9854.8	9795.9	9795.9	9778.8
5°	9816.0	9780.4	9563.2	9533.7	9513.6
7.5°	9758.6	9619.0	9406.5	9367.7	9301.0
10°	9690.4	9445.3	9231.2	8679.0	8274.1
12.5°	9594.2	9301.0	8694.5	7326.4	6764.8
15°	9491.8	9158.3	7748.3	6059.0	5770.5
17.5°	9370.8	8969.1	6518.2	5556.4	5432.3
20°	9226.6	8661.9	5708.4	5210.5	4794.8
22.5°	9057.5	8185.7	5342.4	4331.0	3209.4
25°	8869.8	7529.6	5049.2	2632.4	1814.9
27.5°	8672.8	6754.0	4469.0	1599.3	1239.4
30°	8468.0	5956.6	3225.0	1146.3	747.7
32.5°	8205.9	5305.1	1956.1	645.3	333.5
35°	7957.7	4853.7	1312.3	283.9	158.2
37.5°	7670.7	4541.9	958.6	150.5	111.7
40°	7390.0	4237.9	547.6	113.2	107.0
42.5°	7036.3	3859.4	231.1	107.0	76.0
45°	6747.8	3172.2	122.5	83.8	46.5
47.5°	6366.2	2171.7	82.2	65.2	29.5
50°	5983.0	1341.8	69.8	51.2	23.3
52.5°	5618.5	888.8	51.2	48.1	21.7
55°	5238.4	614.3	40.3	46.5	21.7
57.5°	4816.5	302.5	34.1	45.0	20.2
60°	4380.6	117.9	32.6	43.4	20.2
62.5°	3949.4	65.2	31.0	35.7	18.6
65°	3491.8	51.2	29.5	27.9	18.6
67.5°	3038.8	41.9	27.9	26.4	18.6
70°	2576.6	37.2	26.4	23.3	17.1
72.5°	2105.0	34.1	24.8	23.3	15.5
75°	1638.1	31.0	24.8	20.2	15.5
77.5°	1225.5	29.5	23.3	20.2	12.4
80°	814.4	26.4	21.7	17.1	10.9
82.5°	449.9	24.8	18.6	15.5	10.9
85°	147.4	20.2	15.5	14.0	9.3
87.5°	23.3	14.0	12.4	12.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)