

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-L840-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-L840-CD1-U
Description: Metalux 4' ILED WITH OPEN NARROW DISTRIBUTION
Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

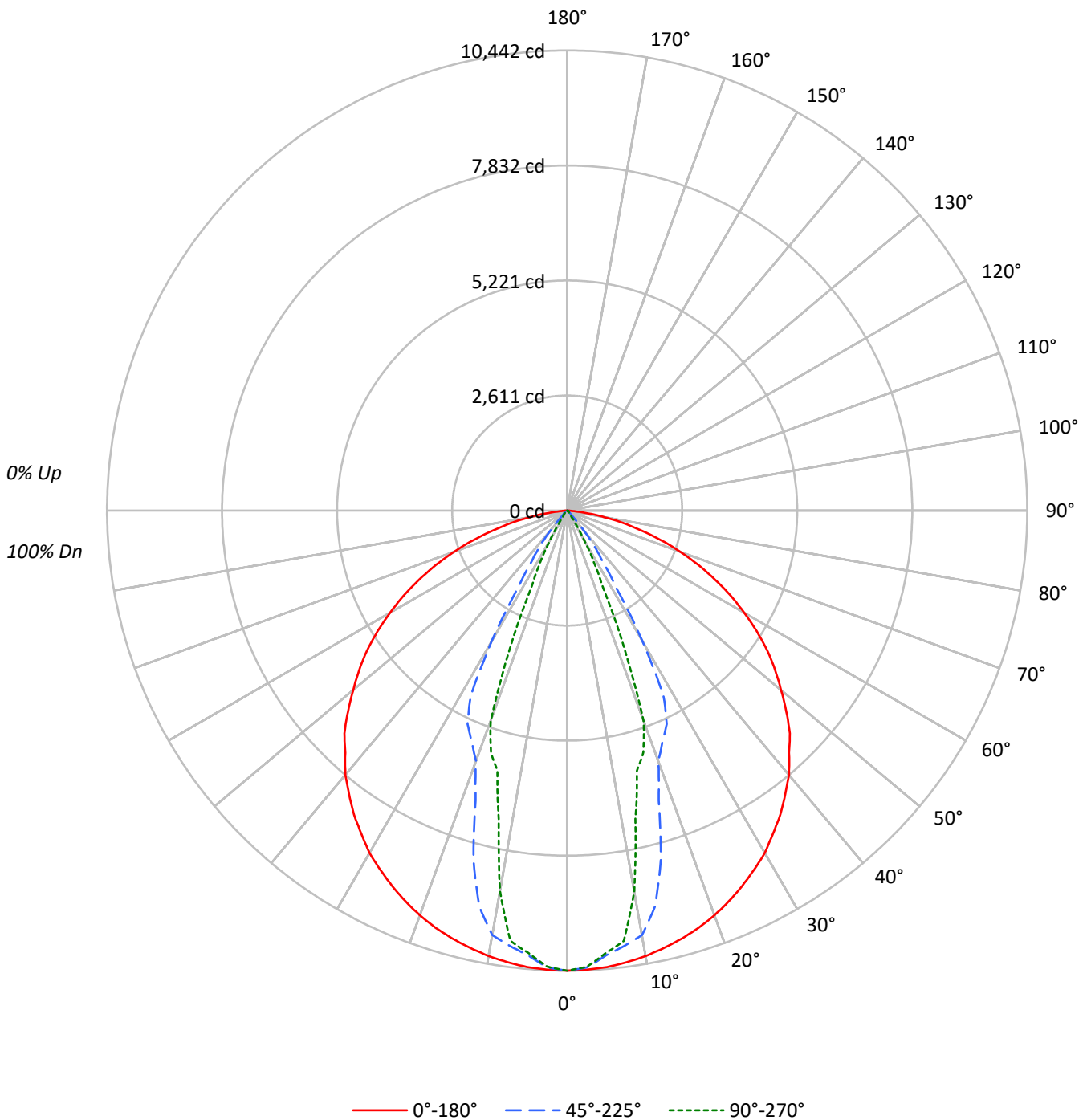
Lumens per Lamp: N/A
Luminaire Lumens: 10503.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
Input Voltage (V):
Input Current (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	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°	30655	30655	30655
5°	30575	29607	29416
10°	30465	28670	25634
15°	30355	24327	18050
20°	30258	18261	15261
25°	30083	16591	5926
30°	29974	10979	2526
35°	29690	4672	558
40°	29383	2059	398
45°	28951	492	185
50°	28107	303	99
55°	27422	192	102
60°	26114	174	106
65°	24385	180	111
70°	21921	190	120
75°	18002	220	132
80°	12773	253	120
85°	4089	265	148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.2	9.1
10°-20°	2289.5	21.8
20°-30°	2503.3	23.8
30°-40°	1811.6	17.2
40°-50°	1352.0	12.9
50°-60°	789.5	7.5
60°-70°	490.8	4.7
70°-80°	256.0	2.4
80°-90°	51.1	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°	5752.0	54.8
0°-40°	7563.6	72.0
0°-60°	9705.1	92.4
0°-90°	10503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10442	10442	10442	10442	10442	
5°	10398	10360	10130	10099	10078	988
15°	10055	9702	8208	6418	6113	2839
25°	9396	7976	5349	2788	1922	4334
35°	8430	5142	1390	301	168	5270
45°	7148	3360	130	89	49	5489
55°	5549	651	43	49	23	4940
65°	3699	54	31	30	20	3657
75°	1735	33	26	21	16	1860
85°	156	21	16	15	10	296
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10442.5	10442.5	10442.5	10442.5	10442.5
2.5°	10426.1	10439.3	10376.8	10376.8	10358.7
5°	10398.2	10360.4	10130.3	10099.1	10077.7
7.5°	10337.4	10189.5	9964.4	9923.3	9852.6
10°	10265.1	10005.4	9778.7	9193.7	8764.8
12.5°	10163.2	9852.6	9210.1	7760.8	7166.0
15°	10054.7	9701.5	8207.8	6418.3	6112.7
17.5°	9926.6	9501.0	6904.7	5885.9	5754.5
20°	9773.8	9175.6	6047.0	5519.5	5079.1
22.5°	9594.6	8671.2	5659.2	4587.8	3399.8
25°	9395.8	7976.1	5348.6	2788.5	1922.5
27.5°	9187.1	7154.5	4734.1	1694.1	1312.9
30°	8970.2	6309.9	3416.2	1214.3	792.0
32.5°	8692.5	5619.7	2072.1	683.6	353.3
35°	8429.6	5141.6	1390.1	300.7	167.6
37.5°	8125.6	4811.3	1015.5	159.4	118.3
40°	7828.2	4489.2	580.0	120.0	113.4
42.5°	7453.6	4088.3	244.8	113.4	80.5
45°	7147.9	3360.3	129.8	88.7	49.3
47.5°	6743.7	2300.5	87.1	69.0	31.2
50°	6337.8	1421.4	73.9	54.2	24.6
52.5°	5951.7	941.6	54.2	50.9	23.0
55°	5549.1	650.7	42.7	49.3	23.0
57.5°	5102.1	320.4	36.2	47.7	21.4
60°	4640.4	124.9	34.5	46.0	21.4
62.5°	4183.6	69.0	32.9	37.8	19.7
65°	3698.8	54.2	31.2	29.6	19.7
67.5°	3219.0	44.4	29.6	27.9	19.7
70°	2729.4	39.4	27.9	24.6	18.1
72.5°	2229.8	36.2	26.3	24.6	16.4
75°	1735.2	32.9	26.3	21.4	16.4
77.5°	1298.1	31.2	24.6	21.4	13.1
80°	862.7	27.9	23.0	18.1	11.5
82.5°	476.5	26.3	19.7	16.4	11.5
85°	156.1	21.4	16.4	14.8	9.9
87.5°	24.6	14.8	13.1	13.1	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)