

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-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-TWB-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH NARROW WITH THIN WHITE BAFFLE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

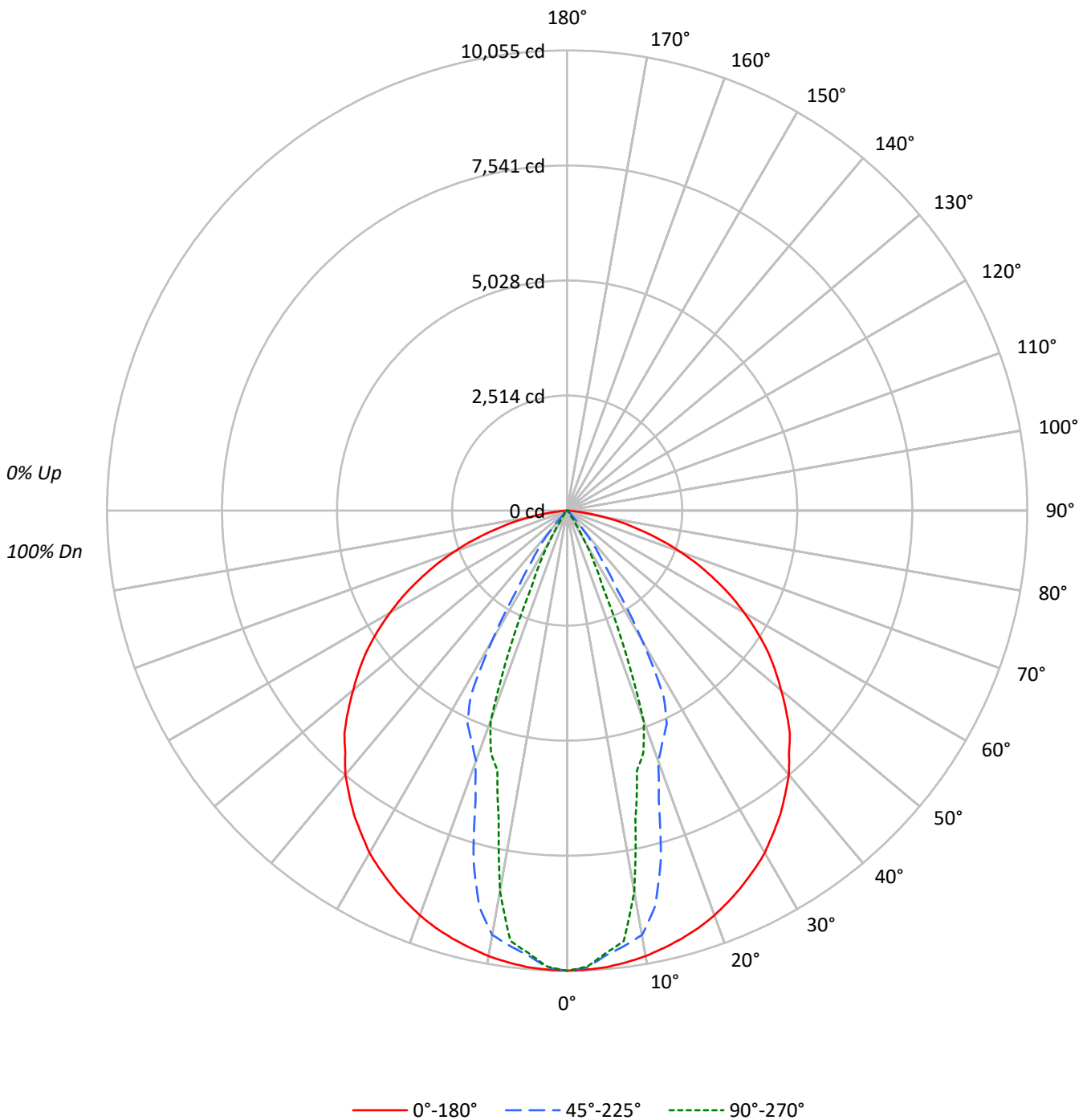
Lumens per Lamp: N/A
Luminaire Lumens: 10113.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.59 / 0.77
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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°	29517	29517	29517
5°	29440	28507	28324
10°	29334	27605	24682
15°	29228	23423	17380
20°	29134	17582	14695
25°	28966	15975	5706
30°	28861	10572	2432
35°	28587	4498	537
40°	28291	1983	383
45°	27876	474	178
50°	27064	292	96
55°	26403	185	98
60°	25144	167	102
65°	23480	174	107
70°	21107	183	115
75°	17334	212	127
80°	12298	244	116
85°	3937	255	142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.6	9.1
10°-20°	2204.5	21.8
20°-30°	2410.3	23.8
30°-40°	1744.4	17.2
40°-50°	1301.8	12.9
50°-60°	760.1	7.5
60°-70°	472.6	4.7
70°-80°	246.5	2.4
80°-90°	49.2	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°	5538.4	54.8
0°-40°	7282.8	72.0
0°-60°	9344.7	92.4
0°-90°	10113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10055	10055	10055	10055	10055	
5°	10012	9976	9754	9724	9704	951
15°	9681	9341	7903	6180	5886	2734
25°	9047	7680	5150	2685	1851	4173
35°	8117	4951	1338	290	161	5075
45°	6882	3236	125	85	48	5285
55°	5343	626	41	48	22	4757
65°	3562	52	30	28	19	3521
75°	1671	32	25	21	16	1791
85°	150	21	16	14	10	285
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10054.8	10054.8	10054.8	10054.8	10054.8
2.5°	10039.0	10051.6	9991.5	9991.5	9974.1
5°	10012.1	9975.7	9754.2	9724.1	9703.5
7.5°	9953.5	9811.1	9594.4	9554.8	9486.8
10°	9883.9	9633.9	9415.6	8852.3	8439.4
12.5°	9785.8	9486.8	8868.1	7472.7	6899.9
15°	9681.4	9341.2	7903.0	6180.0	5885.7
17.5°	9558.0	9148.2	6648.3	5667.4	5540.8
20°	9410.8	8834.9	5822.4	5314.6	4890.5
22.5°	9238.4	8349.2	5449.0	4417.5	3273.5
25°	9046.9	7679.9	5150.0	2685.0	1851.2
27.5°	8846.0	6888.8	4558.3	1631.2	1264.2
30°	8637.1	6075.6	3289.4	1169.2	762.6
32.5°	8369.8	5411.1	1995.1	658.2	340.2
35°	8116.6	4950.7	1338.5	289.5	161.4
37.5°	7823.9	4632.6	977.8	153.5	113.9
40°	7537.5	4322.5	558.5	115.5	109.2
42.5°	7176.8	3936.5	235.7	109.2	77.5
45°	6882.5	3235.6	125.0	85.4	47.5
47.5°	6493.3	2215.1	83.9	66.5	30.1
50°	6102.5	1368.6	71.2	52.2	23.7
52.5°	5730.7	906.6	52.2	49.0	22.2
55°	5343.0	626.5	41.1	47.5	22.2
57.5°	4912.7	308.5	34.8	45.9	20.6
60°	4468.1	120.2	33.2	44.3	20.6
62.5°	4028.2	66.5	31.6	36.4	19.0
65°	3561.5	52.2	30.1	28.5	19.0
67.5°	3099.5	42.7	28.5	26.9	19.0
70°	2628.0	38.0	26.9	23.7	17.4
72.5°	2147.0	34.8	25.3	23.7	15.8
75°	1670.8	31.6	25.3	20.6	15.8
77.5°	1249.9	30.1	23.7	20.6	12.7
80°	830.6	26.9	22.2	17.4	11.1
82.5°	458.8	25.3	19.0	15.8	11.1
85°	150.3	20.6	15.8	14.2	9.5
87.5°	23.7	14.2	12.7	12.7	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)