

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-W-CL-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 (P34177)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-11-W-CL-UNV-L840-CD1-U
Description: Metalux 4' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

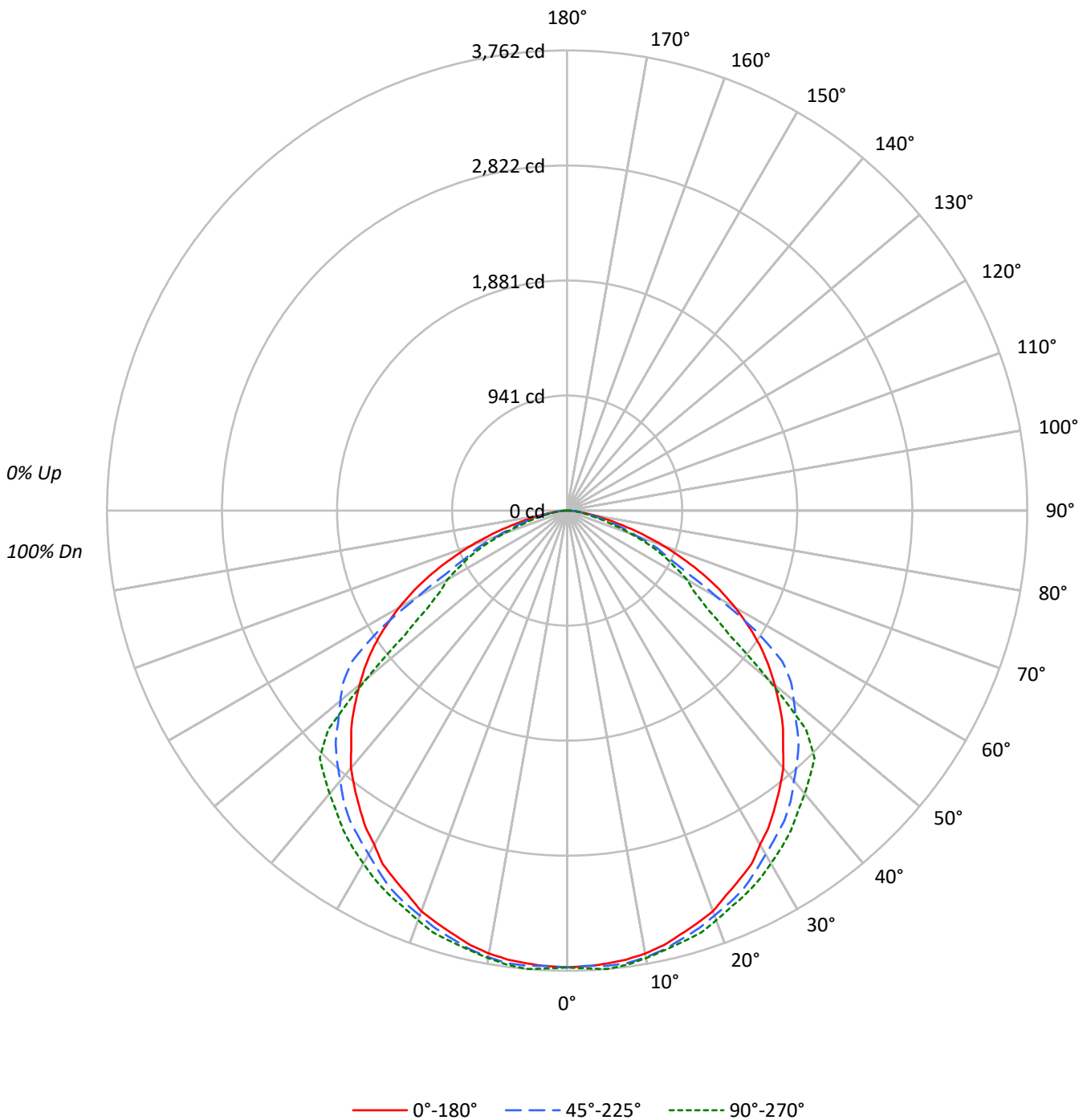
Lumens per Lamp: N/A
Luminaire Lumens: 10113.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10962	10962	10962
5°	10931	10918	10980
10°	10911	10868	10864
15°	10829	10744	10776
20°	10789	10639	10709
25°	10662	10584	10662
30°	10537	10433	10624
35°	10427	10403	10621
40°	10319	10239	10607
45°	10106	10148	10706
50°	9818	9933	8659
55°	9505	9671	6195
60°	8925	7131	5594
65°	8029	5222	4861
70°	6692	4090	3655
75°	4906	3019	2439
80°	3129	2106	1525
85°	1553	1253	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	3.5
10°-20°	1026.0	10.1
20°-30°	1570.7	15.5
30°-40°	1933.4	19.1
40°-50°	2049.2	20.3
50°-60°	1645.8	16.3
60°-70°	1022.9	10.1
70°-80°	420.9	4.2
80°-90°	88.2	0.9
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°	2952.6	29.2
0°-40°	4886.0	48.3
0°-60°	8581.0	84.9
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°	3734	3734	3734	3734	3734	
5°	3718	3727	3736	3756	3762	354
15°	3587	3637	3625	3649	3649	1014
25°	3330	3365	3412	3450	3459	1536
35°	2960	3033	3096	3173	3190	1854
45°	2495	2550	2676	2804	2860	1919
55°	1923	2009	2145	1531	1399	1712
65°	1218	1305	905	859	864	1200
75°	473	435	360	322	303	519
85°	59	73	78	78	76	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3734.3	3734.3	3734.3	3734.3	3734.3
2.5°	3728.3	3732.8	3725.2	3741.9	3746.5
5°	3717.6	3726.7	3735.9	3755.6	3761.7
7.5°	3702.4	3722.2	3732.8	3745.0	3745.0
10°	3676.6	3707.0	3707.0	3711.5	3714.6
12.5°	3640.1	3681.1	3673.5	3676.6	3681.1
15°	3586.9	3637.0	3624.9	3649.2	3649.2
17.5°	3536.7	3579.3	3580.8	3611.2	3621.8
20°	3485.0	3520.0	3523.0	3567.1	3564.1
22.5°	3401.4	3454.6	3469.8	3494.1	3506.3
25°	3329.9	3364.9	3412.0	3450.0	3459.1
27.5°	3261.5	3290.4	3328.4	3393.8	3401.4
30°	3153.5	3214.3	3246.3	3332.9	3331.4
32.5°	3068.4	3123.1	3168.7	3252.3	3264.5
35°	2960.4	3033.4	3095.7	3173.3	3190.0
37.5°	2855.5	2922.4	2999.9	3076.0	3098.8
40°	2749.1	2809.9	2884.4	2975.6	3021.2
42.5°	2612.2	2686.7	2784.0	2888.9	2940.6
45°	2495.1	2549.9	2676.1	2803.8	2860.1
47.5°	2353.7	2425.2	2536.2	2698.9	2647.2
50°	2213.8	2296.0	2420.6	2445.0	2142.4
52.5°	2075.5	2157.6	2308.1	1934.1	1675.6
55°	1923.4	2008.6	2145.4	1531.1	1398.9
57.5°	1757.7	1838.3	1826.1	1271.1	1225.5
60°	1585.9	1664.9	1414.1	1113.0	1132.8
62.5°	1408.0	1493.1	1110.0	1017.2	986.8
65°	1217.9	1304.6	904.7	859.1	863.6
67.5°	1020.3	1093.2	793.7	732.9	717.7
70°	833.2	854.5	600.6	583.9	553.5
72.5°	646.2	618.8	477.4	440.9	409.0
75°	472.9	434.9	360.4	322.3	302.6
77.5°	328.4	301.1	260.0	273.7	202.2
80°	211.3	196.1	191.6	152.0	146.0
82.5°	124.7	123.2	118.6	109.5	106.4
85°	59.3	73.0	77.5	77.5	76.0
87.5°	21.3	36.5	48.7	51.7	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)