

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-LD5-14-W-FL-UNV-L850-CD2-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 (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-14-W-FL-UNV-L850-CD2-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

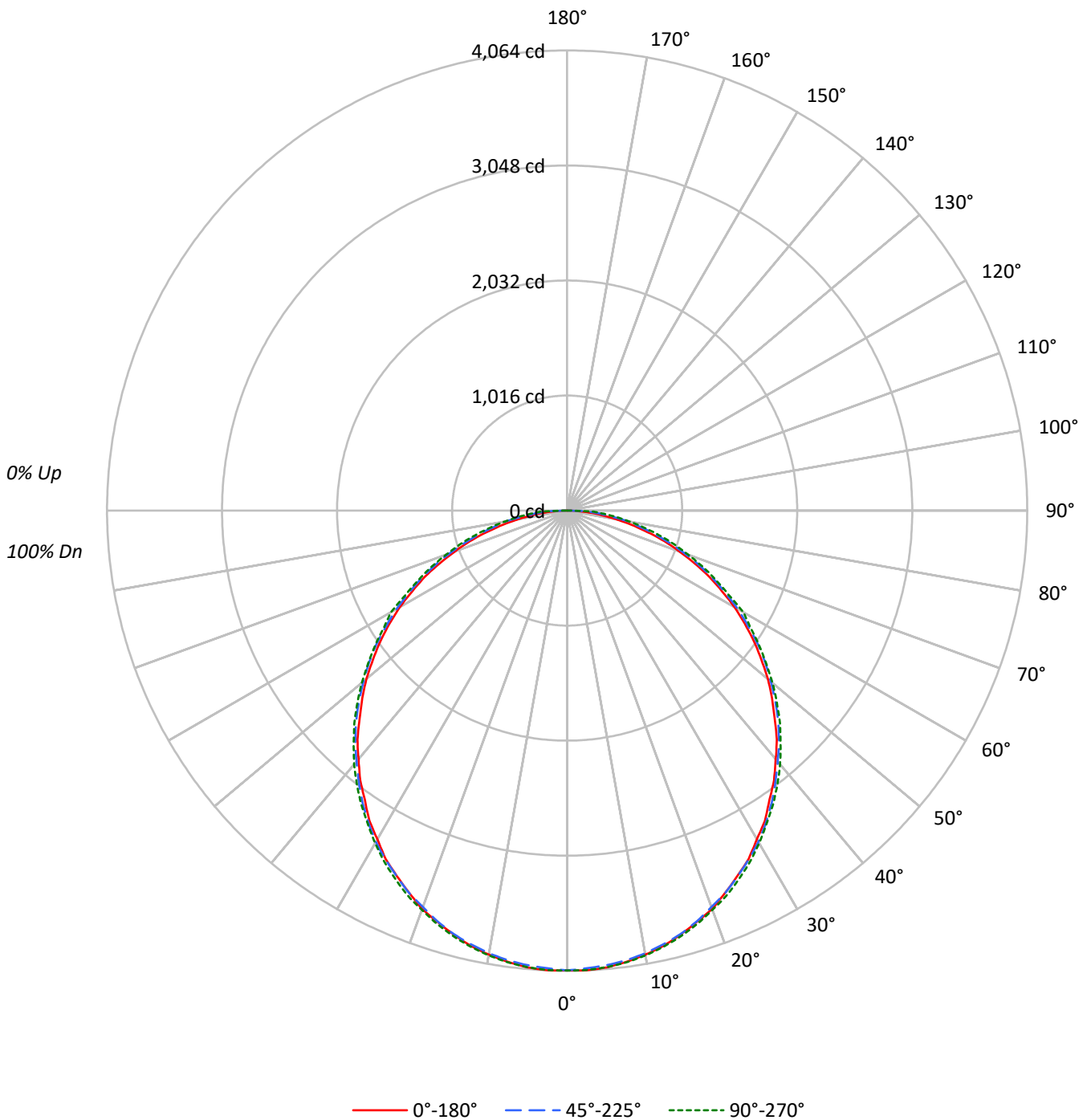
Lumens per Lamp: N/A
Luminaire Lumens: 11500.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 102
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	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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11923	11923	11923
5°	11906	11779	11813
10°	11819	11639	11665
15°	11702	11476	11489
20°	11594	11252	11277
25°	11397	11054	11068
30°	11198	10857	10820
35°	10974	10583	10554
40°	10757	10269	10274
45°	10494	9991	9948
50°	10262	9632	9571
55°	9963	9266	9158
60°	9599	8781	8876
65°	9145	8224	8148
70°	8464	7502	7496
75°	7627	6701	6766
80°	6538	5953	5852
85°	5184	4410	4870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.9	3.3
10°-20°	1094.2	9.5
20°-30°	1646.5	14.3
30°-40°	1969.8	17.1
40°-50°	2030.0	17.7
50°-60°	1830.2	15.9
60°-70°	1405.7	12.2
70°-80°	846.3	7.4
80°-90°	293.4	2.6
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°	3124.6	27.2
0°-40°	5094.5	44.3
0°-60°	8954.6	77.9
0°-90°	11500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4062	4062	4062	4062	4062	
5°	4049	4045	4030	4045	4047	384
15°	3876	3880	3872	3889	3891	1094
25°	3560	3562	3564	3584	3591	1641
35°	3116	3147	3149	3168	3170	1953
45°	2591	2614	2635	2656	2658	2003
55°	2016	2033	2056	2068	2068	1799
65°	1387	1391	1425	1441	1448	1367
75°	735	756	800	829	839	781
85°	198	229	273	310	325	223
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4061.5	4061.5	4061.5	4061.5	4061.5
2.5°	4063.5	4061.5	4044.8	4057.3	4061.5
5°	4049.0	4044.8	4030.2	4044.8	4046.9
7.5°	4019.8	4017.7	4005.2	4019.8	4024.0
10°	3982.3	3982.3	3969.8	3984.4	3988.6
12.5°	3936.5	3934.4	3924.0	3940.7	3944.8
15°	3876.1	3880.3	3871.9	3888.6	3890.7
17.5°	3809.4	3811.5	3805.3	3819.9	3826.1
20°	3744.9	3734.5	3726.1	3751.1	3753.2
22.5°	3651.2	3655.3	3653.2	3676.1	3680.3
25°	3559.5	3561.6	3563.7	3584.5	3590.8
27.5°	3469.9	3467.9	3474.1	3490.8	3497.0
30°	3351.2	3367.9	3378.3	3390.8	3392.9
32.5°	3249.2	3255.4	3267.9	3276.2	3278.3
35°	3115.9	3147.1	3149.2	3167.9	3170.0
37.5°	3001.3	3011.7	3022.1	3045.1	3049.2
40°	2865.9	2880.5	2893.0	2913.8	2926.3
42.5°	2741.0	2757.6	2770.1	2788.9	2791.0
45°	2591.0	2613.9	2634.7	2655.6	2657.7
47.5°	2453.5	2476.5	2493.1	2509.8	2511.9
50°	2314.0	2332.7	2347.3	2368.1	2368.1
52.5°	2159.9	2182.8	2205.7	2214.0	2214.0
55°	2016.2	2032.8	2055.7	2068.2	2068.2
57.5°	1859.9	1868.3	1893.3	1916.2	1916.2
60°	1705.8	1716.2	1741.2	1757.9	1797.5
62.5°	1541.3	1557.9	1574.6	1628.8	1605.8
65°	1387.1	1391.3	1424.6	1441.3	1447.5
67.5°	1216.4	1230.9	1264.3	1283.0	1295.5
70°	1053.9	1072.6	1101.8	1124.7	1135.1
72.5°	899.8	908.1	945.6	976.8	991.4
75°	735.2	756.1	799.8	829.0	839.4
77.5°	579.0	612.3	654.0	756.1	697.7
80°	441.6	466.5	541.5	545.7	560.3
82.5°	308.3	337.4	387.4	420.7	437.4
85°	197.9	229.1	272.8	310.3	324.9
87.5°	91.6	125.0	181.2	222.9	235.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)