

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-L840-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-L840-CD2-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10631.0 lumens
Efficiency: N/A
Efficacy: 104.2 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

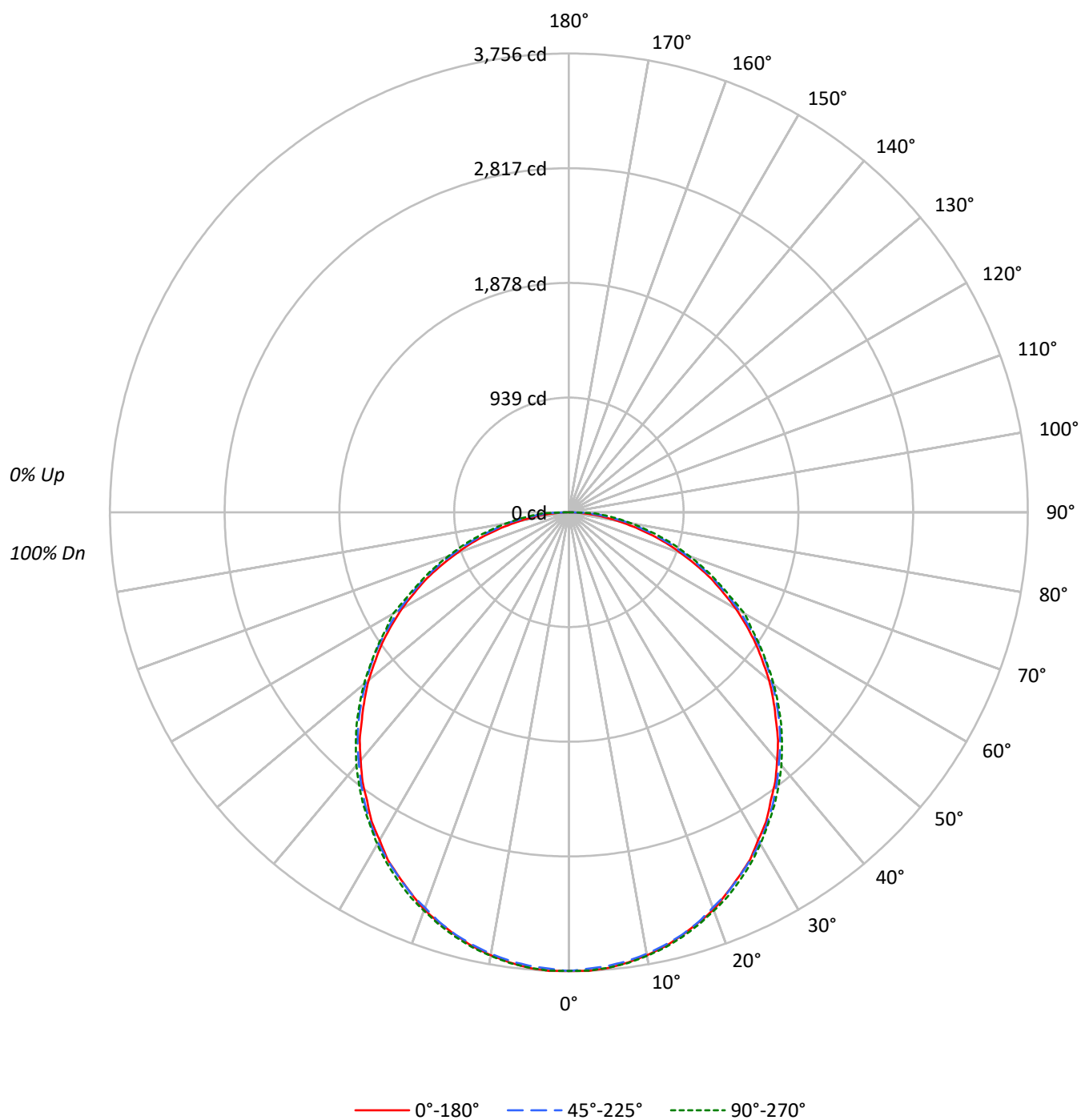
Input Watts (W): 102
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		85	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	69	60	54		66	59	53		64	57	52		61	56	52
5	75	62	53	47	73	61	53	46		59	52	46		57	51	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		49	41	36		47	40	35		46	40	35
8	60	47	38	32	59	46	38	32		44	37	32		43	36	32		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11022	11022	11022
5°	11006	10889	10920
10°	10926	10759	10784
15°	10817	10609	10621
20°	10717	10402	10425
25°	10535	10219	10231
30°	10352	10037	10002
35°	10145	9783	9757
40°	9944	9493	9497
45°	9701	9236	9196
50°	9487	8904	8848
55°	9210	8566	8466
60°	8874	8117	8205
65°	8454	7602	7533
70°	7825	6935	6930
75°	7051	6195	6254
80°	6044	5503	5409
85°	4791	4077	4503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	3.3
10°-20°	1011.6	9.5
20°-30°	1522.1	14.3
30°-40°	1821.0	17.1
40°-50°	1876.6	17.7
50°-60°	1691.9	15.9
60°-70°	1299.5	12.2
70°-80°	782.4	7.4
80°-90°	271.2	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°	2888.5	27.2
0°-40°	4709.5	44.3
0°-60°	8277.9	77.9
0°-90°	10631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3755	3755	3755	3755	3755	
5°	3743	3739	3726	3739	3741	355
15°	3583	3587	3579	3595	3597	1011
25°	3290	3292	3294	3314	3319	1517
35°	2880	2909	2911	2929	2930	1806
45°	2395	2416	2436	2455	2457	1852
55°	1864	1879	1900	1912	1912	1663
65°	1282	1286	1317	1332	1338	1264
75°	680	699	739	766	776	722
85°	183	212	252	287	300	206
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3754.6	3754.6	3754.6	3754.6	3754.6
2.5°	3756.5	3754.6	3739.2	3750.7	3754.6
5°	3743.0	3739.2	3725.7	3739.2	3741.1
7.5°	3716.1	3714.1	3702.6	3716.1	3719.9
10°	3681.4	3681.4	3669.8	3683.3	3687.2
12.5°	3639.0	3637.1	3627.5	3642.9	3646.7
15°	3583.2	3587.0	3579.3	3594.8	3596.7
17.5°	3521.6	3523.5	3517.7	3531.2	3537.0
20°	3461.9	3452.3	3444.6	3467.7	3469.6
22.5°	3375.3	3379.1	3377.2	3398.4	3402.2
25°	3290.5	3292.5	3294.4	3313.6	3319.4
27.5°	3207.7	3205.8	3211.6	3227.0	3232.8
30°	3098.0	3113.4	3123.0	3134.6	3136.5
32.5°	3003.6	3009.4	3021.0	3028.7	3030.6
35°	2880.4	2909.3	2911.2	2928.6	2930.5
37.5°	2774.5	2784.2	2793.8	2815.0	2818.8
40°	2649.4	2662.8	2674.4	2693.7	2705.2
42.5°	2533.8	2549.3	2560.8	2578.1	2580.1
45°	2395.2	2416.4	2435.7	2454.9	2456.8
47.5°	2268.1	2289.3	2304.7	2320.1	2322.1
50°	2139.1	2156.5	2169.9	2189.2	2189.2
52.5°	1996.7	2017.8	2039.0	2046.7	2046.7
55°	1863.8	1879.2	1900.4	1911.9	1911.9
57.5°	1719.4	1727.1	1750.2	1771.4	1771.4
60°	1576.9	1586.5	1609.6	1625.1	1661.6
62.5°	1424.8	1440.2	1455.6	1505.7	1484.5
65°	1282.3	1286.2	1317.0	1332.4	1338.2
67.5°	1124.4	1137.9	1168.7	1186.1	1197.6
70°	974.3	991.6	1018.5	1039.7	1049.4
72.5°	831.8	839.5	874.1	903.0	916.5
75°	679.7	698.9	739.4	766.3	775.9
77.5°	535.3	566.1	604.6	698.9	645.0
80°	408.2	431.3	500.6	504.5	517.9
82.5°	285.0	311.9	358.1	388.9	404.3
85°	182.9	211.8	252.2	286.9	300.4
87.5°	84.7	115.5	167.5	206.0	217.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)