

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-FLWG-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 (P34182)
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-FLWG-UNV-L840-CD2-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

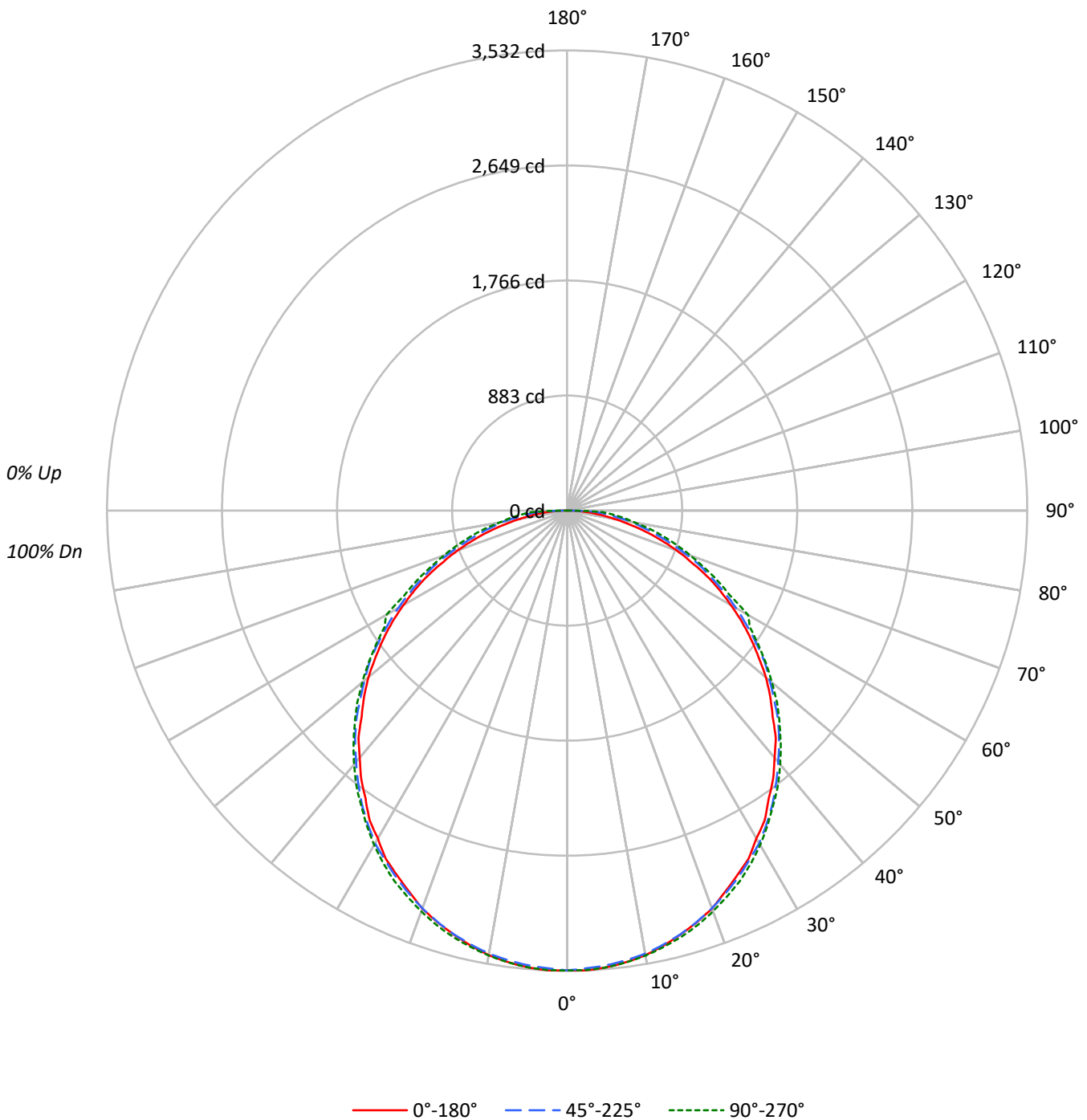
Lumens per Lamp: N/A
Luminaire Lumens: 10038.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10362	10362	10362
5°	10345	10237	10270
10°	10281	10123	10143
15°	10168	9977	10002
20°	10063	9810	9837
25°	9890	9635	9669
30°	9710	9475	9451
35°	9502	9235	9181
40°	9295	8948	8931
45°	9032	8690	8629
50°	8831	8329	8297
55°	8517	7986	7922
60°	8171	7555	7921
65°	7770	7070	7176
70°	7191	6556	6638
75°	6473	5921	6162
80°	5474	5568	5490
85°	4440	4731	5226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	3.3
10°-20°	952.0	9.5
20°-30°	1433.6	14.3
30°-40°	1714.5	17.1
40°-50°	1760.7	17.5
50°-60°	1581.2	15.8
60°-70°	1216.6	12.1
70°-80°	749.9	7.5
80°-90°	295.8	2.9
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°	2719.3	27.1
0°-40°	4433.8	44.2
0°-60°	7775.7	77.5
0°-90°	10038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3530	3530	3530	3530	3530	
5°	3518	3516	3503	3516	3518	334
15°	3368	3374	3366	3380	3387	951
25°	3089	3093	3106	3129	3137	1424
35°	2698	2736	2748	2758	2758	1692
45°	2230	2265	2292	2301	2305	1727
55°	1724	1747	1772	1791	1789	1541
65°	1178	1190	1225	1267	1275	1162
75°	624	657	707	753	764	659
85°	170	225	293	335	349	194
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3529.8	3529.8	3529.8	3529.8	3529.8
2.5°	3531.7	3529.8	3516.3	3526.0	3529.8
5°	3518.2	3516.3	3502.8	3516.3	3518.2
7.5°	3495.1	3495.1	3481.7	3495.1	3497.1
10°	3464.3	3464.3	3452.8	3464.3	3468.2
12.5°	3420.0	3423.9	3412.3	3425.8	3429.7
15°	3368.0	3373.8	3366.1	3379.6	3387.3
17.5°	3312.2	3314.1	3310.3	3327.6	3335.3
20°	3250.6	3248.7	3248.7	3271.8	3273.7
22.5°	3167.8	3177.4	3179.3	3204.4	3206.3
25°	3088.8	3092.7	3106.1	3129.3	3137.0
27.5°	3013.7	3011.8	3025.3	3046.5	3054.2
30°	2905.9	2925.1	2948.2	2955.9	2963.6
32.5°	2821.1	2826.9	2850.0	2857.7	2863.5
35°	2697.9	2736.4	2748.0	2757.6	2757.6
37.5°	2597.8	2618.9	2634.4	2651.7	2659.4
40°	2476.4	2503.4	2520.7	2538.1	2543.8
42.5°	2370.5	2387.9	2409.0	2422.5	2426.4
45°	2230.0	2264.6	2291.6	2301.2	2305.1
47.5°	2114.4	2152.9	2156.8	2179.9	2185.7
50°	1991.2	2020.1	2029.7	2056.6	2052.8
52.5°	1854.4	1889.1	1912.2	1919.9	1921.8
55°	1723.5	1746.6	1771.6	1790.9	1789.0
57.5°	1590.6	1609.9	1631.1	1660.0	1661.9
60°	1452.0	1475.1	1498.2	1527.1	1604.1
62.5°	1317.2	1330.7	1357.6	1413.5	1407.7
65°	1178.5	1190.1	1224.7	1267.1	1274.8
67.5°	1028.3	1051.4	1103.4	1130.4	1134.2
70°	895.4	916.6	962.8	997.5	1005.2
72.5°	754.9	779.9	830.0	874.3	885.8
75°	623.9	656.7	706.7	752.9	764.5
77.5°	489.1	531.5	591.2	702.9	649.0
80°	369.7	417.9	506.5	519.9	525.7
82.5°	263.8	315.8	379.4	425.6	441.0
85°	169.5	225.3	292.7	335.1	348.6
87.5°	94.4	148.3	219.5	261.9	273.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)