

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: P730363

Luminaire Tested: **HBLED-LD5-12SE-W-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-UNV-L850
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12453.0 lumens
Efficiency: N/A
Efficacy: 166.0 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

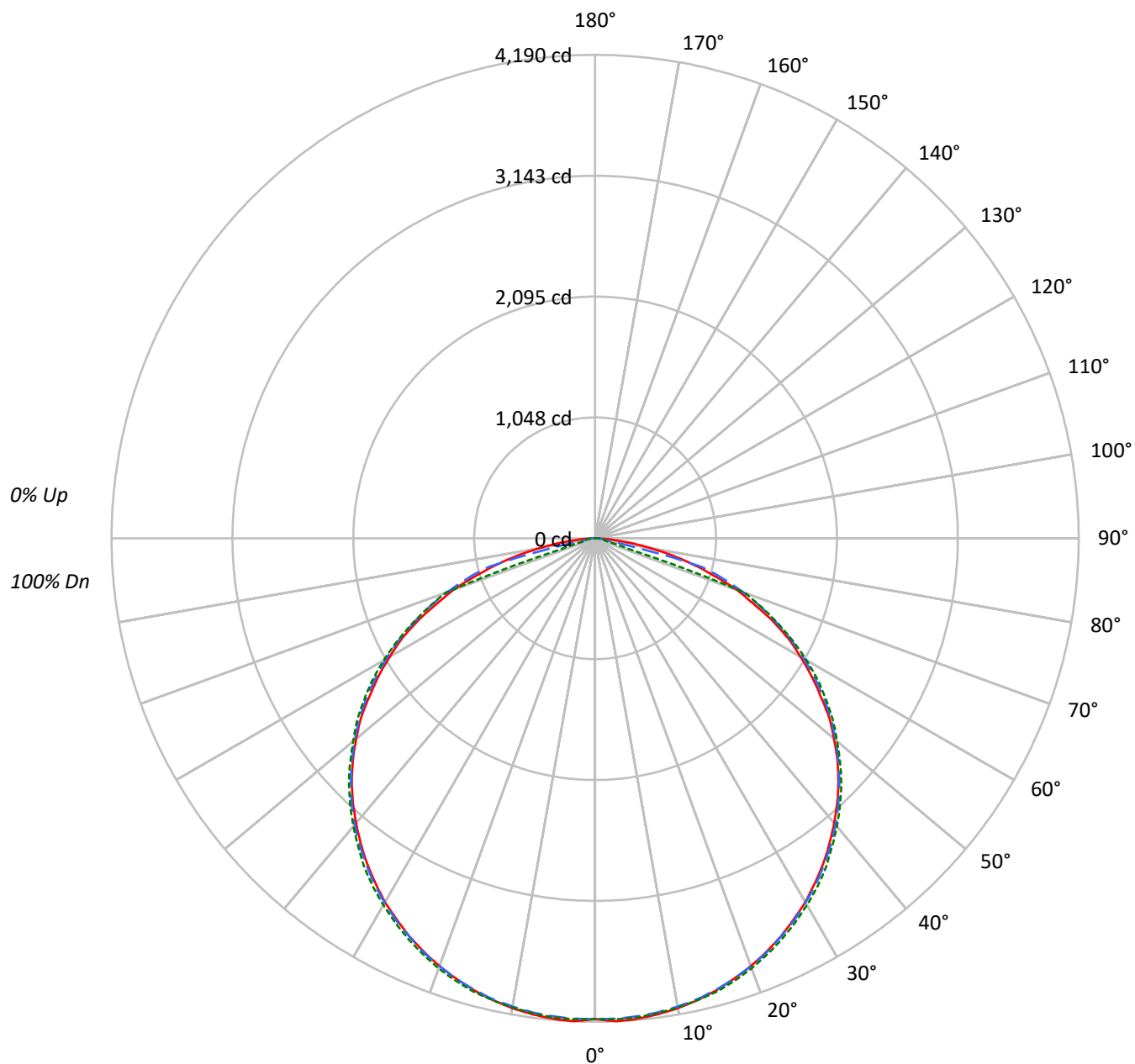
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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	100		
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	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	33	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	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6728	6728	6728
5°	6777	6742	6754
10°	6780	6756	6770
15°	6779	6770	6801
20°	6779	6780	6815
25°	6782	6785	6827
30°	6789	6798	6843
35°	6788	6810	6867
40°	6789	6832	6870
45°	6808	6834	6889
50°	6788	6827	6872
55°	6713	6807	6880
60°	6637	6745	6829
65°	6490	6625	6675
70°	6162	6424	6503
75°	5496	5959	718
80°	4419	742	786
85°	2940	963	980



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.8	3.2
10°-20°	1143.6	9.2
20°-30°	1757.1	14.1
30°-40°	2163.1	17.4
40°-50°	2306.0	18.5
50°-60°	2155.7	17.3
60°-70°	1706.5	13.7
70°-80°	726.0	5.8
80°-90°	99.1	0.8
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°	3296.5	26.5
0°-40°	5459.6	43.8
0°-60°	9921.3	79.7
0°-90°	12453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4167	4167	4167	4167	4167	
5°	4181	4162	4160	4143	4167	398
15°	4056	4048	4050	4039	4069	1145
25°	3807	3802	3809	3807	3832	1755
35°	3444	3438	3455	3467	3484	2155
45°	2982	2965	2993	3005	3017	2298
55°	2385	2392	2418	2427	2444	2136
65°	1699	1714	1734	1747	1747	1671
75°	881	919	955	156	115	932
85°	159	47	52	54	53	207
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4167.1	4167.1	4167.1	4167.1	4167.1
2.5°	4190.3	4170.8	4167.1	4150.4	4172.7
5°	4181.1	4162.5	4159.7	4143.0	4167.1
7.5°	4161.6	4146.7	4144.9	4127.2	4151.3
10°	4135.6	4121.6	4120.7	4104.9	4129.1
12.5°	4100.3	4088.2	4091.9	4076.2	4100.3
15°	4055.7	4048.3	4050.2	4039.0	4068.7
17.5°	4001.9	3998.2	4001.9	3993.5	4020.5
20°	3945.3	3940.6	3946.2	3941.6	3966.6
22.5°	3879.4	3873.8	3884.9	3878.4	3901.6
25°	3807.0	3802.3	3808.8	3807.0	3832.0
27.5°	3724.3	3719.7	3733.6	3734.5	3754.0
30°	3641.7	3635.2	3646.4	3651.0	3670.5
32.5°	3543.3	3541.5	3558.2	3561.9	3582.3
35°	3444.0	3438.4	3455.1	3467.2	3483.9
37.5°	3335.4	3334.4	3352.1	3362.3	3370.7
40°	3221.2	3216.6	3241.6	3251.8	3259.3
42.5°	3105.2	3094.9	3119.1	3132.1	3140.4
45°	2981.7	2965.0	2992.8	3004.9	3017.0
47.5°	2846.2	2831.3	2858.2	2871.2	2879.6
50°	2702.3	2688.4	2718.1	2729.2	2735.7
52.5°	2557.5	2543.5	2575.1	2584.4	2600.2
55°	2384.8	2392.2	2418.2	2426.6	2444.2
57.5°	2225.1	2231.6	2256.7	2266.9	2287.3
60°	2055.3	2065.5	2088.7	2098.9	2114.7
62.5°	1890.9	1891.9	1919.7	1924.4	1936.4
65°	1698.8	1713.6	1734.1	1747.1	1747.1
67.5°	1484.3	1520.6	1555.8	1553.0	1560.5
70°	1305.2	1319.1	1360.9	1367.4	1377.6
72.5°	1080.5	1116.7	1163.2	868.9	295.2
75°	881.0	919.0	955.2	156.0	115.1
77.5°	684.2	713.9	317.5	89.1	87.3
80°	475.3	522.6	79.8	81.7	84.5
82.5°	312.8	255.3	65.9	72.4	73.3
85°	158.7	47.3	52.0	53.8	52.9
87.5°	52.0	28.8	29.7	30.6	31.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)