

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: P730368

Luminaire Tested: **HBLED-LD5-12SE-W-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-WG-UNV-L840
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11567.0 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

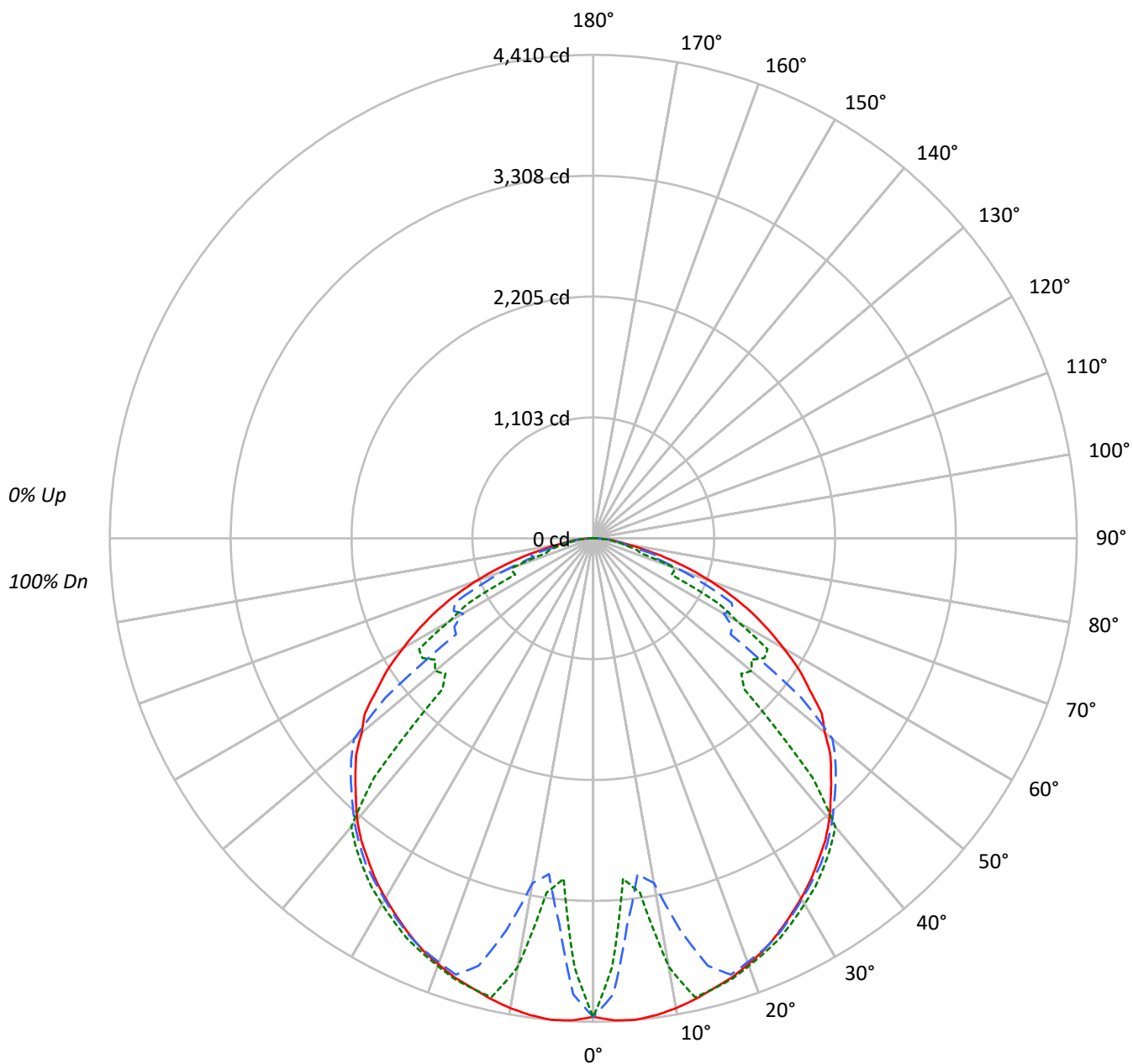
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730368

CATALOG NUMBER: HBLED-LD5-12SE-W-WG-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730368

CATALOG NUMBER: HBLED-LD5-12SE-W-WG-UNV-L840

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7050	7050	7050
5°	7148	5742	5050
10°	7135	5237	6513
15°	7104	6749	7110
20°	7104	7071	7134
25°	7091	7107	7172
30°	7070	7094	7185
35°	7059	7137	7221
40°	7060	7137	7240
45°	7005	7142	4438
50°	6925	7156	4730
55°	6780	4303	5361
60°	6467	4436	4909
65°	6060	5326	3004
70°	5351	4035	3682
75°	4263	3667	2553
80°	2937	2650	2194
85°	2814	2447	2321



TEST NUMBER: P730368

CATALOG NUMBER: HBLED-LD5-12SE-W-WG-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.1	3.0
10°-20°	1093.8	9.5
20°-30°	1799.5	15.6
30°-40°	2262.7	19.6
40°-50°	2219.1	19.2
50°-60°	1838.7	15.9
60°-70°	1296.8	11.2
70°-80°	565.8	4.9
80°-90°	141.4	1.2
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°	3242.5	28.0
0°-40°	5505.2	47.6
0°-60°	9563.0	82.7
0°-90°	11567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4366	4366	4366	4366	4366	
5°	4410	4105	3543	3212	3116	419
15°	4250	2951	4038	4266	4253	1202
25°	3980	3642	3989	4016	4026	1835
35°	3582	3579	3621	3645	3664	2244
45°	3068	3077	3128	2770	1944	2368
55°	2408	2487	1529	1738	1904	2155
65°	1586	1680	1394	1072	786	1560
75°	683	670	588	384	409	733
85°	152	135	132	126	125	158
90°	0	0	0	0	0	



TEST NUMBER: P730368

CATALOG NUMBER: HBLED-LD5-12SE-W-WG-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4366.2	4366.2	4366.2	4366.2	4366.2
2.5°	4402.2	4310.8	4165.7	3982.9	3918.2
5°	4410.0	4104.6	3542.8	3212.4	3115.8
7.5°	4387.6	3730.3	3088.7	3158.0	3260.4
10°	4352.1	3401.4	3194.1	3757.9	3972.5
12.5°	4306.7	3109.0	3659.2	4245.0	4287.8
15°	4249.7	2951.3	4037.8	4266.5	4253.4
17.5°	4201.7	3043.7	4173.5	4223.6	4214.2
20°	4134.3	3228.0	4115.6	4155.8	4152.1
22.5°	4066.5	3446.2	4060.7	4089.5	4089.5
25°	3980.4	3642.0	3989.2	4015.9	4025.8
27.5°	3885.8	3754.8	3899.9	3921.8	3939.6
30°	3792.4	3771.0	3804.9	3833.1	3854.0
32.5°	3693.7	3685.4	3712.0	3741.8	3768.4
35°	3581.5	3579.4	3621.1	3645.2	3663.5
37.5°	3476.0	3468.7	3507.3	3540.8	3554.9
40°	3349.7	3349.7	3386.2	3420.1	3434.8
42.5°	3205.6	3226.0	3254.1	3289.1	2962.3
45°	3067.7	3077.2	3127.8	2770.2	1943.7
47.5°	2935.1	2947.1	2995.2	1780.8	1829.4
50°	2757.1	2811.4	2849.0	1775.6	1883.2
52.5°	2627.1	2650.6	2391.6	1757.9	1818.4
55°	2408.4	2487.2	1528.6	1738.0	1904.5
57.5°	2221.5	2278.9	1503.1	1780.8	1884.2
60°	2002.7	2090.4	1373.6	1718.2	1520.3
62.5°	1792.8	1876.3	1434.2	1352.2	1287.4
65°	1586.1	1679.5	1394.0	1072.4	786.2
67.5°	1359.5	1272.3	1112.0	755.5	795.1
70°	1133.5	888.6	854.7	844.7	780.0
72.5°	901.1	648.4	567.5	633.8	453.7
75°	683.4	669.8	587.9	384.2	409.3
77.5°	474.0	483.4	314.8	374.8	311.1
80°	315.9	273.6	285.0	239.1	236.0
82.5°	218.8	223.4	187.4	181.7	184.3
85°	151.9	135.2	132.1	126.4	125.3
87.5°	50.6	59.0	54.8	49.6	52.8
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)