

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: P730362

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730362
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-L840
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12214.0 lumens
Efficiency: N/A
Efficacy: 162.9 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

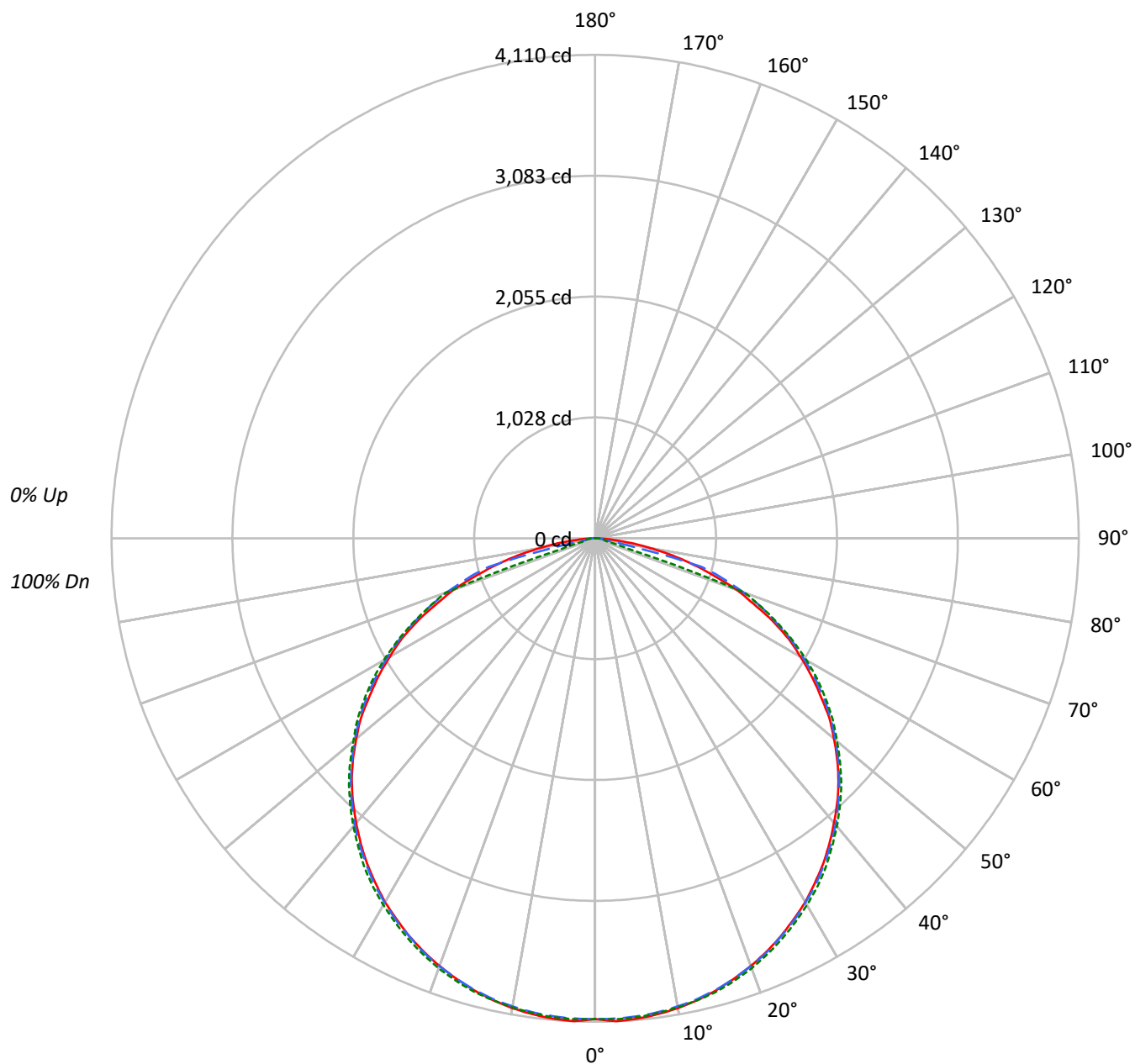
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730362

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

Luminous Intensity Polar Plot





TEST NUMBER: P730362

CATALOG NUMBER: HBLED-LD5-12SE-W-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	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°	6599	6599	6599
5°	6646	6613	6624
10°	6650	6626	6640
15°	6649	6640	6670
20°	6649	6650	6685
25°	6652	6655	6696
30°	6659	6668	6712
35°	6658	6679	6735
40°	6659	6701	6738
45°	6678	6703	6757
50°	6657	6696	6740
55°	6584	6676	6748
60°	6509	6615	6698
65°	6366	6498	6546
70°	6043	6301	6379
75°	5390	5845	704
80°	4335	728	771
85°	2884	945	961



TEST NUMBER: P730362

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.2	3.2
10°-20°	1121.7	9.2
20°-30°	1723.4	14.1
30°-40°	2121.6	17.4
40°-50°	2261.8	18.5
50°-60°	2114.3	17.3
60°-70°	1673.7	13.7
70°-80°	712.1	5.8
80°-90°	97.2	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°	3233.3	26.5
0°-40°	5354.8	43.8
0°-60°	9730.9	79.7
0°-90°	12214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4087	4087	4087	4087	4087	
5°	4101	4083	4080	4064	4087	390
15°	3978	3971	3972	3962	3991	1123
25°	3734	3729	3736	3734	3758	1722
35°	3378	3372	3389	3401	3417	2114
45°	2924	2908	2935	2947	2959	2253
55°	2339	2346	2372	2380	2397	2095
65°	1666	1681	1701	1714	1714	1639
75°	864	901	937	153	113	914
85°	156	46	51	53	52	203
90°	0	0	0	0	0	



TEST NUMBER: P730362

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4087.2	4087.2	4087.2	4087.2	4087.2
2.5°	4109.9	4090.8	4087.2	4070.8	4092.6
5°	4100.8	4082.6	4079.9	4063.5	4087.2
7.5°	4081.7	4067.1	4065.3	4048.0	4071.7
10°	4056.2	4042.5	4041.6	4026.2	4049.8
12.5°	4021.6	4009.8	4013.4	3997.9	4021.6
15°	3977.9	3970.6	3972.4	3961.5	3990.6
17.5°	3925.1	3921.4	3925.1	3916.9	3943.3
20°	3869.5	3865.0	3870.5	3865.9	3890.5
22.5°	3804.9	3799.4	3810.4	3804.0	3826.8
25°	3733.9	3729.3	3735.7	3733.9	3758.5
27.5°	3652.9	3648.3	3662.0	3662.9	3682.0
30°	3571.8	3565.4	3576.4	3580.9	3600.0
32.5°	3475.3	3473.5	3489.9	3493.5	3513.5
35°	3377.9	3372.4	3388.8	3400.7	3417.0
37.5°	3271.4	3270.5	3287.8	3297.8	3306.0
40°	3159.4	3154.8	3179.4	3189.4	3196.7
42.5°	3045.6	3035.5	3059.2	3072.0	3080.2
45°	2924.5	2908.1	2935.4	2947.2	2959.1
47.5°	2791.5	2777.0	2803.4	2816.1	2824.3
50°	2650.4	2636.8	2665.9	2676.8	2683.2
52.5°	2508.4	2494.7	2525.7	2534.8	2550.3
55°	2339.0	2346.3	2371.8	2380.0	2397.3
57.5°	2182.4	2188.8	2213.4	2223.4	2243.4
60°	2015.8	2025.8	2048.6	2058.6	2074.1
62.5°	1854.7	1855.6	1882.9	1887.4	1899.3
65°	1666.2	1680.7	1700.8	1713.5	1713.5
67.5°	1455.9	1491.4	1526.0	1523.2	1530.5
70°	1280.1	1293.8	1334.8	1341.1	1351.2
72.5°	1059.8	1095.3	1140.8	852.2	289.5
75°	864.0	901.4	936.9	153.0	112.9
77.5°	671.0	700.2	311.4	87.4	85.6
80°	466.2	512.6	78.3	80.1	82.9
82.5°	306.8	250.4	64.6	71.0	71.9
85°	155.7	46.4	51.0	52.8	51.9
87.5°	51.0	28.2	29.1	30.0	31.0
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)