

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: P730290

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730290
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-LD5-12HE-W-UNV-L840
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12472.0 lumens
Efficiency: N/A
Efficacy: 171.6 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

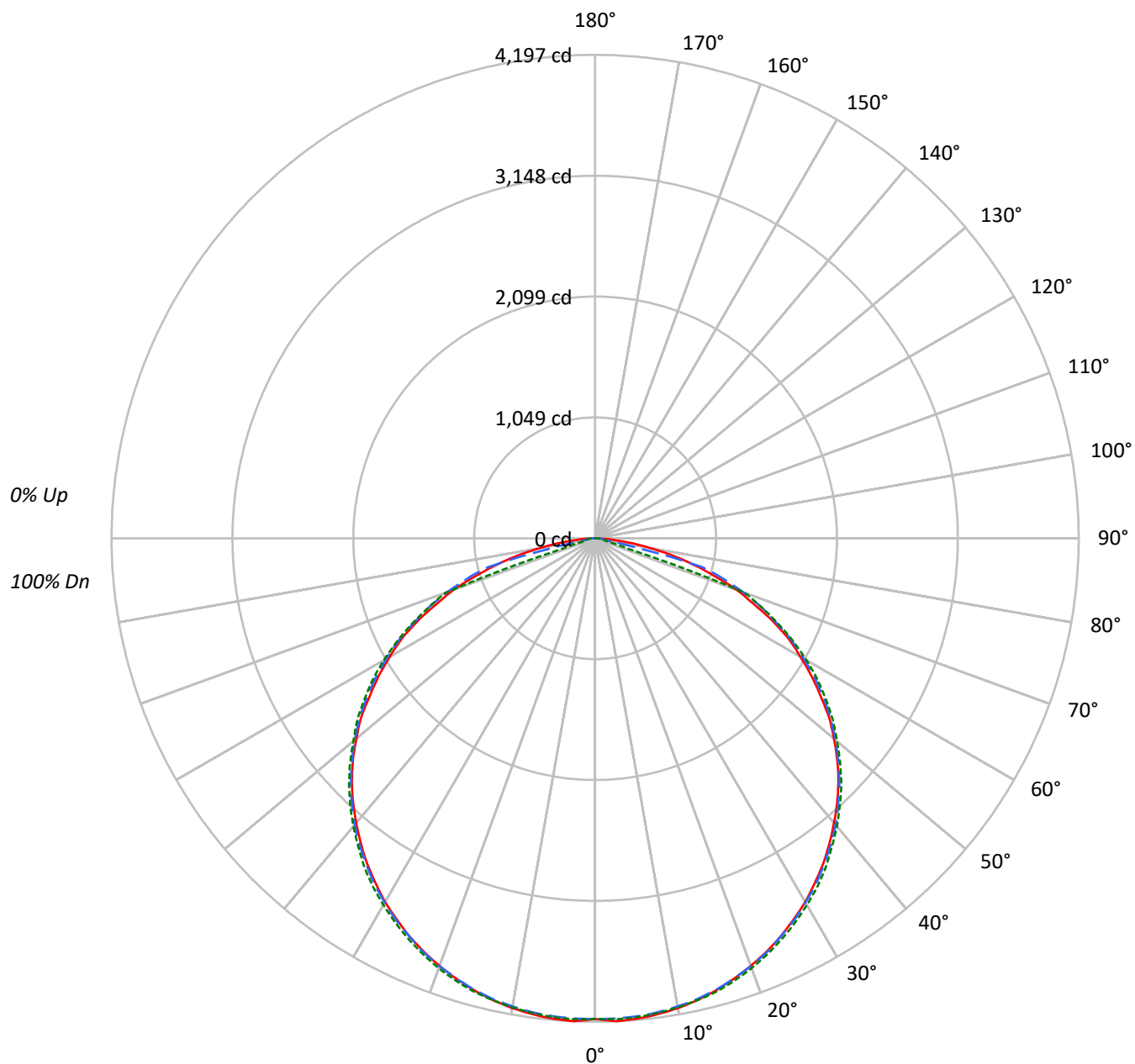
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6738	6738	6738
5°	6787	6752	6764
10°	6791	6766	6780
15°	6790	6780	6811
20°	6789	6791	6826
25°	6793	6796	6837
30°	6800	6808	6854
35°	6799	6821	6877
40°	6800	6843	6880
45°	6819	6844	6899
50°	6798	6838	6882
55°	6723	6818	6891
60°	6647	6755	6839
65°	6500	6635	6685
70°	6171	6434	6513
75°	5504	5968	719
80°	4426	744	787
85°	2946	965	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.4	3.2
10°-20°	1145.4	9.2
20°-30°	1759.8	14.1
30°-40°	2166.4	17.4
40°-50°	2309.6	18.5
50°-60°	2159.0	17.3
60°-70°	1709.1	13.7
70°-80°	727.2	5.8
80°-90°	99.3	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°	3301.6	26.5
0°-40°	5467.9	43.8
0°-60°	9936.5	79.7
0°-90°	12472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4174	4174	4174	4174	4174	
5°	4187	4169	4166	4149	4174	398
15°	4062	4054	4056	4045	4075	1147
25°	3813	3808	3815	3813	3838	1758
35°	3449	3444	3460	3472	3489	2158
45°	2986	2970	2997	3010	3022	2301
55°	2388	2396	2422	2430	2448	2139
65°	1701	1716	1737	1750	1750	1674
75°	882	920	957	156	115	933
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°	4173.5	4173.5	4173.5	4173.5	4173.5
2.5°	4196.7	4177.2	4173.5	4156.8	4179.1
5°	4187.4	4168.8	4166.1	4149.3	4173.5
7.5°	4167.9	4153.0	4151.2	4133.5	4157.7
10°	4141.9	4127.9	4127.0	4111.2	4135.4
12.5°	4106.5	4094.5	4098.2	4082.4	4106.5
15°	4061.9	4054.5	4056.3	4045.2	4074.9
17.5°	4008.0	4004.3	4008.0	3999.6	4026.6
20°	3951.3	3946.6	3952.2	3947.6	3972.7
22.5°	3885.3	3879.7	3890.9	3884.3	3907.6
25°	3812.8	3808.1	3814.6	3812.8	3837.9
27.5°	3730.0	3725.4	3739.3	3740.2	3759.8
30°	3647.3	3640.8	3651.9	3656.6	3676.1
32.5°	3548.7	3546.9	3563.6	3567.3	3587.8
35°	3449.2	3443.7	3460.4	3472.5	3489.2
37.5°	3340.5	3339.5	3357.2	3367.4	3375.8
40°	3226.1	3221.5	3246.6	3256.8	3264.2
42.5°	3109.9	3099.7	3123.8	3136.9	3145.2
45°	2986.2	2969.5	2997.4	3009.5	3021.6
47.5°	2850.5	2835.6	2862.6	2875.6	2884.0
50°	2706.4	2692.5	2722.2	2733.4	2739.9
52.5°	2561.4	2547.4	2579.0	2588.3	2604.1
55°	2388.4	2395.9	2421.9	2430.3	2447.9
57.5°	2228.5	2235.0	2260.1	2270.4	2290.8
60°	2058.4	2068.6	2091.9	2102.1	2117.9
62.5°	1893.8	1894.8	1922.6	1927.3	1939.4
65°	1701.4	1716.3	1736.7	1749.7	1749.7
67.5°	1486.6	1522.9	1558.2	1555.4	1562.8
70°	1307.2	1321.1	1363.0	1369.5	1379.7
72.5°	1082.2	1118.4	1164.9	870.2	295.6
75°	882.3	920.4	956.7	156.2	115.3
77.5°	685.2	715.0	318.0	89.3	87.4
80°	476.0	523.4	80.0	81.8	84.6
82.5°	313.3	255.7	66.0	72.5	73.4
85°	159.0	47.4	52.1	53.9	53.0
87.5°	52.1	28.8	29.8	30.7	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)