

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: P730297

Luminaire Tested: **HBLED-LD5-12HE-W-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730297
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-LD5-12HE-W-WG-UNV-L850
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12043.0 lumens
Efficiency: N/A
Efficacy: 165.7 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

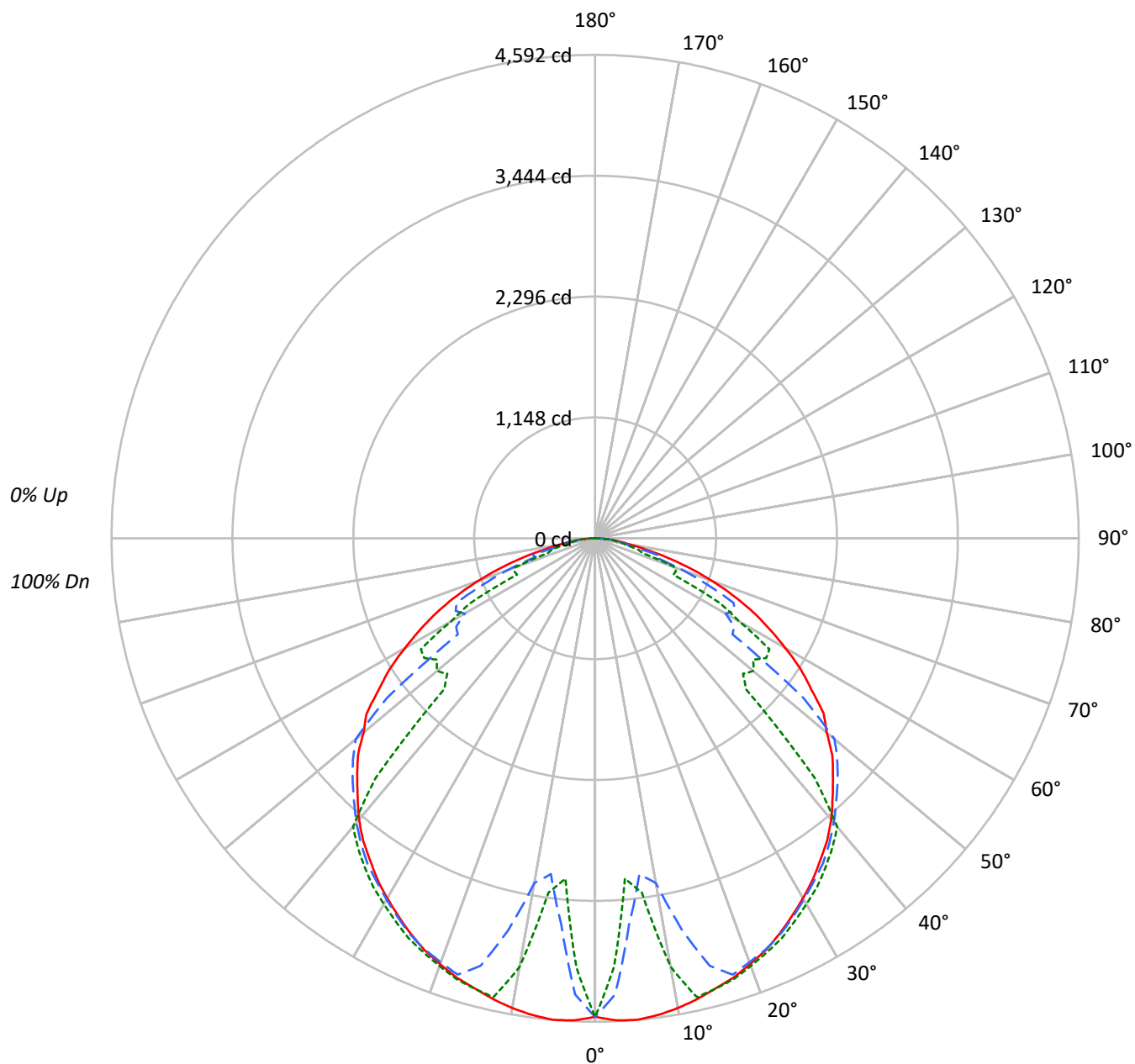
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7340	7340	7340
5°	7442	5978	5258
10°	7429	5452	6781
15°	7396	7027	7402
20°	7396	7362	7428
25°	7383	7399	7467
30°	7361	7386	7481
35°	7350	7431	7518
40°	7351	7431	7537
45°	7293	7436	4621
50°	7211	7451	4925
55°	7058	4480	5582
60°	6733	4618	5111
65°	6309	5545	3127
70°	5571	4201	3834
75°	4439	3818	2659
80°	3058	2760	2285
85°	2931	2547	2418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.5	3.0
10°-20°	1138.8	9.5
20°-30°	1873.6	15.6
30°-40°	2355.8	19.6
40°-50°	2310.5	19.2
50°-60°	1914.3	15.9
60°-70°	1350.2	11.2
70°-80°	589.1	4.9
80°-90°	147.2	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°	3375.9	28.0
0°-40°	5731.7	47.6
0°-60°	9956.5	82.7
0°-90°	12043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4546	4546	4546	4546	4546	
5°	4592	4274	3689	3345	3244	436
15°	4425	3073	4204	4442	4428	1251
25°	4144	3792	4153	4181	4192	1910
35°	3729	3727	3770	3795	3814	2336
45°	3194	3204	3256	2884	2024	2465
55°	2508	2590	1592	1810	1983	2243
65°	1651	1749	1451	1116	819	1624
75°	712	697	612	400	426	763
85°	158	141	138	132	130	164
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4545.8	4545.8	4545.8	4545.8	4545.8
2.5°	4583.3	4488.2	4337.1	4146.9	4079.5
5°	4591.5	4273.5	3688.6	3344.6	3244.0
7.5°	4568.1	3883.8	3215.8	3288.0	3394.6
10°	4531.2	3541.3	3325.6	3912.6	4136.0
12.5°	4483.9	3236.9	3809.8	4419.7	4464.3
15°	4424.6	3072.8	4204.0	4442.0	4428.4
17.5°	4374.6	3169.0	4345.3	4397.4	4387.6
20°	4304.5	3360.9	4284.9	4326.8	4323.0
22.5°	4233.8	3588.1	4227.8	4257.8	4257.8
25°	4144.2	3791.9	4153.4	4181.1	4191.5
27.5°	4045.7	3909.3	4060.4	4083.2	4101.7
30°	3948.4	3926.2	3961.5	3990.9	4012.6
32.5°	3845.7	3837.1	3864.8	3895.7	3923.4
35°	3728.8	3726.7	3770.2	3795.2	3814.2
37.5°	3619.0	3611.5	3651.7	3686.5	3701.1
40°	3487.5	3487.5	3525.6	3560.9	3576.1
42.5°	3337.5	3358.7	3388.1	3424.4	3084.2
45°	3194.0	3203.8	3256.5	2884.2	2023.7
47.5°	3055.9	3068.4	3118.5	1854.1	1904.7
50°	2870.6	2927.1	2966.2	1848.7	1960.7
52.5°	2735.2	2759.7	2490.1	1830.2	1893.2
55°	2507.5	2589.5	1591.5	1809.5	1982.9
57.5°	2312.9	2372.7	1564.9	1854.1	1961.7
60°	2085.1	2176.4	1430.1	1788.9	1582.9
62.5°	1866.6	1953.6	1493.2	1407.8	1340.4
65°	1651.3	1748.6	1451.3	1116.5	818.6
67.5°	1415.4	1324.7	1157.8	786.6	827.9
70°	1180.1	925.2	889.8	879.5	812.1
72.5°	938.2	675.1	590.8	659.9	472.4
75°	711.6	697.4	612.1	400.1	426.2
77.5°	493.5	503.3	327.8	390.3	323.9
80°	328.9	284.9	296.8	248.9	245.7
82.5°	227.8	232.6	195.1	189.1	191.9
85°	158.2	140.8	137.5	131.6	130.5
87.5°	52.7	61.4	57.1	51.6	54.9
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)