

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: P730296

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730296
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-L840
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11811.0 lumens
Efficiency: N/A
Efficacy: 162.5 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

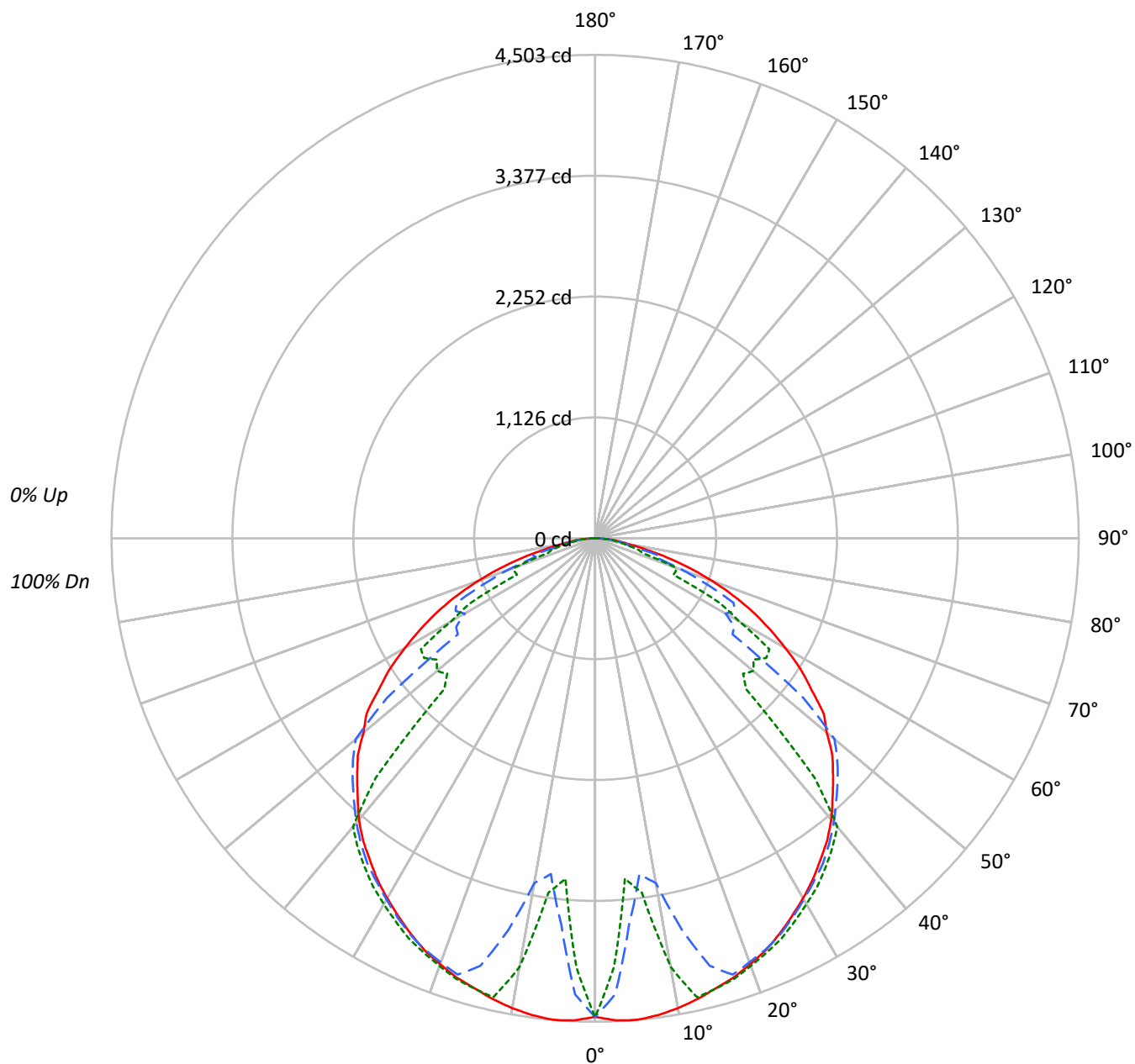
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7198	7198	7198
5°	7298	5863	5156
10°	7286	5347	6650
15°	7253	6892	7260
20°	7254	7221	7285
25°	7241	7257	7323
30°	7220	7243	7337
35°	7208	7288	7373
40°	7209	7288	7392
45°	7153	7293	4532
50°	7072	7307	4830
55°	6923	4394	5474
60°	6604	4529	5013
65°	6187	5438	3067
70°	5464	4120	3760
75°	4353	3745	2608
80°	2999	2707	2241
85°	2873	2499	2369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.5	3.0
10°-20°	1116.9	9.5
20°-30°	1837.5	15.6
30°-40°	2310.4	19.6
40°-50°	2266.0	19.2
50°-60°	1877.4	15.9
60°-70°	1324.2	11.2
70°-80°	577.7	4.9
80°-90°	144.3	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°	3310.9	28.0
0°-40°	5621.3	47.6
0°-60°	9764.7	82.7
0°-90°	11811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4458	4458	4458	4458	4458	
5°	4503	4191	3618	3280	3182	428
15°	4339	3014	4123	4356	4343	1227
25°	4064	3719	4073	4101	4111	1873
35°	3657	3655	3698	3722	3741	2291
45°	3132	3142	3194	2829	1985	2418
55°	2459	2540	1561	1775	1945	2200
65°	1620	1715	1423	1095	803	1592
75°	698	684	600	392	418	748
85°	155	138	135	129	128	161
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4458.3	4458.3	4458.3	4458.3	4458.3
2.5°	4495.1	4401.8	4253.6	4067.0	4000.9
5°	4503.1	4191.2	3617.6	3280.1	3181.5
7.5°	4480.1	3808.9	3153.8	3224.7	3329.2
10°	4443.9	3473.1	3261.5	3837.2	4056.3
12.5°	4397.5	3174.6	3736.4	4334.6	4378.3
15°	4339.4	3013.6	4123.0	4356.5	4343.1
17.5°	4290.3	3107.9	4261.6	4312.7	4303.1
20°	4221.6	3296.1	4202.4	4243.4	4239.7
22.5°	4152.3	3518.9	4146.4	4175.7	4175.7
25°	4064.3	3718.9	4073.4	4100.6	4110.7
27.5°	3967.8	3834.0	3982.2	4004.6	4022.7
30°	3872.4	3850.6	3885.2	3914.0	3935.3
32.5°	3771.7	3763.1	3790.3	3820.7	3847.9
35°	3657.0	3654.9	3697.5	3722.0	3740.7
37.5°	3549.3	3541.9	3581.3	3615.5	3629.8
40°	3420.3	3420.3	3457.6	3492.3	3507.2
42.5°	3273.2	3294.0	3322.8	3358.5	3024.8
45°	3132.5	3142.1	3193.8	2828.6	1984.7
47.5°	2997.0	3009.3	3058.4	1818.4	1868.0
50°	2815.3	2870.7	2909.1	1813.1	1922.9
52.5°	2682.6	2706.5	2442.1	1794.9	1856.8
55°	2459.2	2539.6	1560.9	1774.7	1944.7
57.5°	2268.3	2327.0	1534.8	1818.4	1923.9
60°	2045.0	2134.5	1402.5	1754.4	1552.4
62.5°	1830.6	1915.9	1464.4	1380.7	1314.6
65°	1619.5	1714.9	1423.4	1095.0	802.8
67.5°	1388.2	1299.2	1135.5	771.4	811.9
70°	1157.4	907.3	872.7	862.6	796.4
72.5°	920.1	662.1	579.5	647.2	463.3
75°	697.8	684.0	600.3	392.3	418.0
77.5°	484.0	493.6	321.4	382.7	317.7
80°	322.5	279.4	291.1	244.1	241.0
82.5°	223.4	228.1	191.4	185.5	188.2
85°	155.1	138.1	134.9	129.0	127.9
87.5°	51.7	60.3	56.0	50.6	53.9
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)