

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: P730291

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730291
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-L850
Description: 12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12717.0 lumens
Efficiency: N/A
Efficacy: 174.9 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

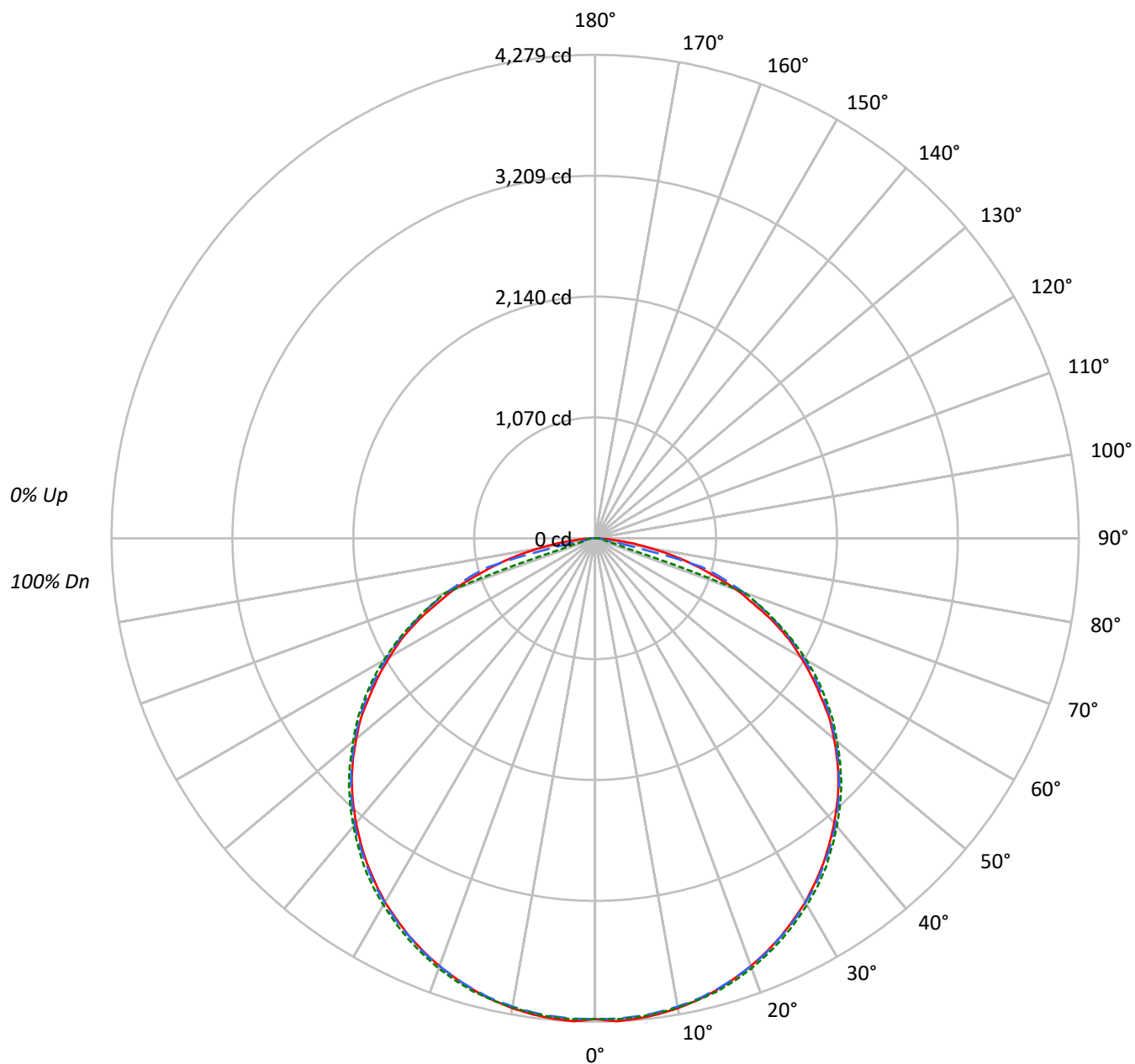
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6871	6871	6871
5°	6920	6885	6897
10°	6924	6899	6913
15°	6923	6914	6945
20°	6922	6924	6960
25°	6926	6929	6972
30°	6933	6942	6988
35°	6932	6955	7013
40°	6933	6977	7015
45°	6953	6979	7035
50°	6932	6972	7017
55°	6856	6952	7026
60°	6777	6888	6973
65°	6628	6765	6816
70°	6292	6560	6641
75°	5612	6085	733
80°	4513	758	802
85°	3003	984	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	3.2
10°-20°	1167.9	9.2
20°-30°	1794.4	14.1
30°-40°	2208.9	17.4
40°-50°	2354.9	18.5
50°-60°	2201.4	17.3
60°-70°	1742.7	13.7
70°-80°	741.4	5.8
80°-90°	101.2	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°	3366.4	26.5
0°-40°	5575.3	43.8
0°-60°	10131.7	79.7
0°-90°	12717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4256	4256	4256	4256	4256	
5°	4270	4251	4248	4231	4256	406
15°	4142	4134	4136	4125	4155	1169
25°	3888	3883	3890	3888	3913	1792
35°	3517	3511	3528	3541	3558	2201
45°	3045	3028	3056	3069	3081	2346
55°	2435	2443	2470	2478	2496	2181
65°	1735	1750	1771	1784	1784	1707
75°	900	938	976	159	118	952
85°	162	48	53	55	54	211
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4255.5	4255.5	4255.5	4255.5	4255.5
2.5°	4279.2	4259.3	4255.5	4238.4	4261.2
5°	4269.7	4250.7	4247.9	4230.8	4255.5
7.5°	4249.8	4234.6	4232.7	4214.7	4239.4
10°	4223.2	4209.0	4208.1	4192.0	4216.6
12.5°	4187.2	4174.9	4178.7	4162.6	4187.2
15°	4141.7	4134.1	4136.0	4124.7	4155.0
17.5°	4086.7	4082.9	4086.7	4078.2	4105.7
20°	4028.9	4024.2	4029.9	4025.1	4050.7
22.5°	3961.6	3955.9	3967.3	3960.7	3984.4
25°	3887.7	3882.9	3889.6	3887.7	3913.3
27.5°	3803.3	3798.5	3812.8	3813.7	3833.6
30°	3718.9	3712.3	3723.7	3728.4	3748.3
32.5°	3618.4	3616.5	3633.6	3637.4	3658.2
35°	3517.0	3511.3	3528.4	3540.7	3557.8
37.5°	3406.1	3405.1	3423.1	3433.6	3442.1
40°	3289.5	3284.7	3310.3	3320.8	3328.3
42.5°	3171.0	3160.6	3185.2	3198.5	3207.0
45°	3044.9	3027.8	3056.3	3068.6	3080.9
47.5°	2906.5	2891.3	2918.8	2932.1	2940.6
50°	2759.6	2745.3	2775.7	2787.1	2793.7
52.5°	2611.7	2597.5	2629.7	2639.2	2655.3
55°	2435.4	2442.9	2469.5	2478.0	2496.0
57.5°	2272.3	2278.9	2304.5	2315.0	2335.8
60°	2098.8	2109.3	2132.9	2143.4	2159.5
62.5°	1931.0	1932.0	1960.4	1965.2	1977.5
65°	1734.8	1750.0	1770.8	1784.1	1784.1
67.5°	1515.8	1552.8	1588.8	1586.0	1593.6
70°	1332.9	1347.1	1389.7	1396.4	1406.8
72.5°	1103.4	1140.4	1187.8	887.3	301.5
75°	899.6	938.5	975.5	159.3	117.5
77.5°	698.7	729.0	324.2	91.0	89.1
80°	485.4	533.7	81.5	83.4	86.3
82.5°	319.5	260.7	67.3	73.9	74.9
85°	162.1	48.3	53.1	55.0	54.0
87.5°	53.1	29.4	30.3	31.3	32.2
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)