

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: P730247

Luminaire Tested: **HBLED-LD5-12HE-N-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-UNV-L835
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11674.0 lumens
Efficiency: N/A
Efficacy: 160.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

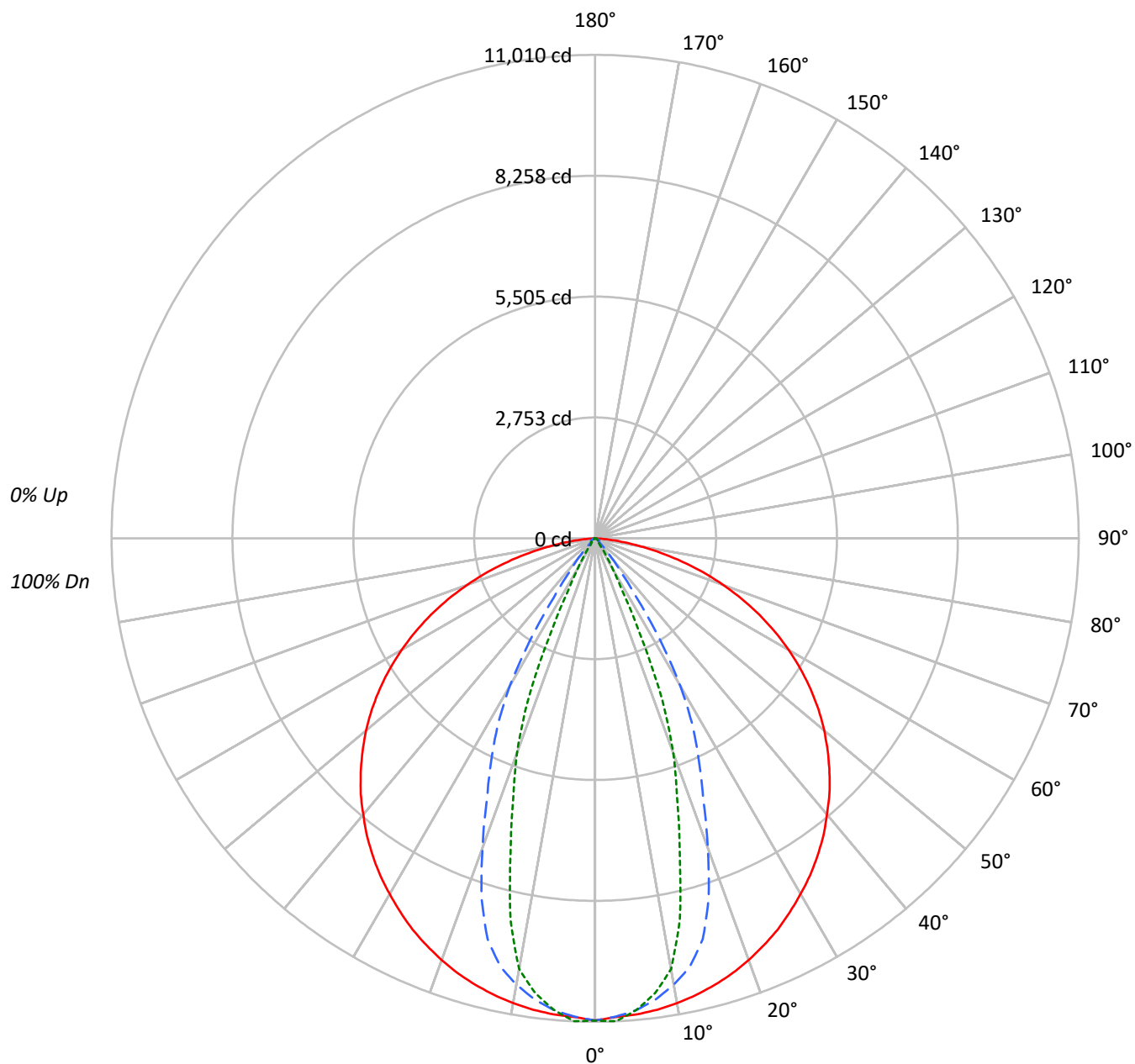
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17734	17734	17734
5°	17639	17483	17475
10°	17628	16923	16329
15°	17603	15810	12427
20°	17562	12888	8945
25°	17517	9966	4407
30°	17440	7243	1429
35°	17399	3213	368
40°	17308	1305	248
45°	17230	366	264
50°	17096	260	293
55°	16849	309	125
60°	16434	344	76
65°	15758	220	90
70°	14639	195	111
75°	12807	147	153
80°	9575	179	219
85°	4742	232	291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.3	8.7
10°-20°	2548.7	21.8
20°-30°	2760.6	23.6
30°-40°	2044.4	17.5
40°-50°	1472.5	12.6
50°-60°	911.7	7.8
60°-70°	560.7	4.8
70°-80°	295.6	2.5
80°-90°	60.5	0.5
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°	6328.6	54.2
0°-40°	8373.0	71.7
0°-60°	10757.2	92.1
0°-90°	11674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10983	10983	10983	10983	10983	
5°	10883	10923	10787	10795	10782	###
15°	10531	10286	9458	8043	7435	2973
25°	9833	9007	5594	3519	2474	4531
35°	8827	6223	1630	384	187	5522
45°	7546	3506	160	116	116	5819
55°	5986	722	110	99	44	5343
65°	4125	76	58	37	24	4070
75°	2053	18	24	31	24	2168
85°	256	7	12	19	16	387
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10983.4	10983.4	10983.4	10983.4	10983.4
2.5°	10912.9	10982.4	10900.4	10961.5	11010.1
5°	10883.1	10923.3	10787.0	10794.8	10782.3
7.5°	10830.8	10821.5	10592.1	10491.8	10447.9
10°	10752.0	10689.8	10322.0	10112.4	9959.9
12.5°	10650.1	10511.1	9985.0	9318.8	8905.0
15°	10530.9	10286.4	9458.3	8043.4	7434.6
17.5°	10388.8	10042.4	8597.2	6741.3	6197.9
20°	10221.1	9770.2	7501.0	5735.5	5206.2
22.5°	10034.0	9438.9	6436.2	4766.7	4011.7
25°	9832.9	9006.8	5593.9	3519.0	2473.5
27.5°	9600.4	8451.4	4803.9	2072.8	1262.4
30°	9354.3	7782.6	3884.8	1115.0	766.5
32.5°	9106.1	7024.4	2748.9	696.5	434.7
35°	8827.1	6222.9	1630.2	383.5	186.6
37.5°	8536.0	5488.3	963.5	174.5	119.7
40°	8211.6	4816.9	619.1	116.0	117.5
42.5°	7898.1	4191.0	348.5	114.4	116.5
45°	7545.9	3505.9	160.4	116.0	115.5
47.5°	7181.7	2795.9	104.0	117.0	117.0
50°	6806.1	1999.1	103.5	119.7	116.5
52.5°	6409.5	1247.2	107.6	119.2	95.6
55°	5985.7	722.1	109.7	99.3	44.4
57.5°	5546.8	425.8	110.8	57.0	25.1
60°	5089.1	235.6	106.6	42.3	23.5
62.5°	4617.3	112.3	84.1	39.7	23.0
65°	4124.6	76.3	57.5	36.6	23.5
67.5°	3613.1	59.0	45.4	34.5	24.0
70°	3101.0	43.9	41.3	34.5	23.5
72.5°	2580.6	29.8	34.5	35.0	23.5
75°	2052.9	17.8	23.5	30.8	24.5
77.5°	1529.9	11.0	18.3	31.9	29.8
80°	1029.8	9.4	19.3	29.8	23.5
82.5°	604.6	8.4	18.8	23.0	18.8
85°	256.0	6.8	12.5	18.8	15.7
87.5°	48.1	5.8	9.9	15.1	13.6
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)