

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: P730244

Luminaire Tested: **HBLED-LD5-12HE-N-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730244
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-L735
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12212.0 lumens
Efficiency: N/A
Efficacy: 168.0 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

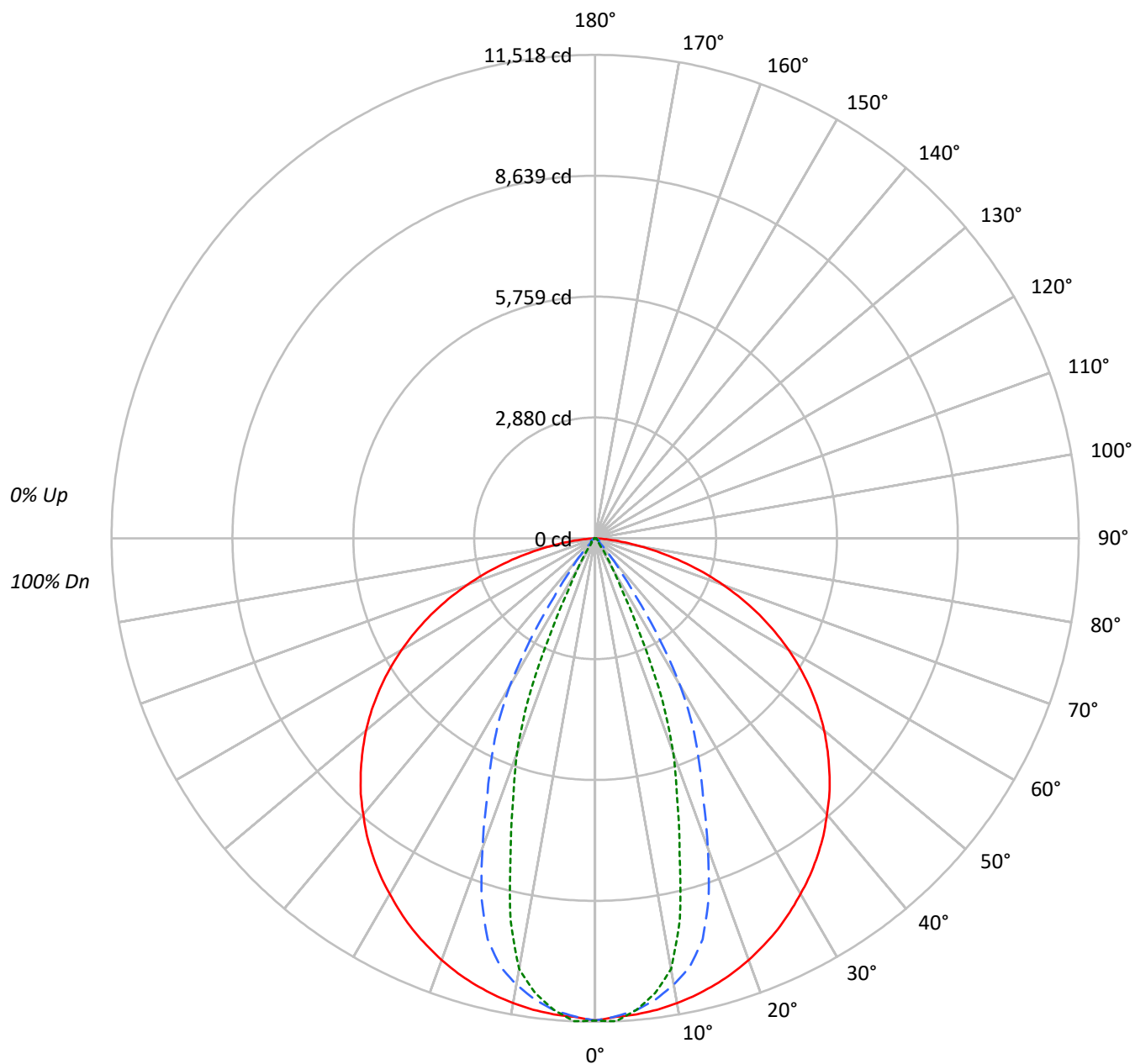
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	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
1	112	108	105	102	109	106	103	101		102	100	98		98	96	95		95	93	92
2	105	98	93	89	102	97	92	88		93	89	86		90	87	84		87	85	82
3	98	90	84	79	96	88	83	78		86	81	77		83	79	76		81	77	74
4	92	82	76	70	90	81	75	70		79	73	69		77	72	68		75	71	67
5	86	76	69	64	84	75	68	63		73	67	63		71	66	62		70	65	62
6	81	70	63	58	79	70	63	58		68	62	58		66	61	57		65	60	57
7	76	66	58	54	75	65	58	53		63	57	53		62	57	53		61	56	52
8	72	61	54	49	71	61	54	49		59	53	49		58	53	49		57	52	49
9	68	57	51	46	67	57	50	46		56	50	46		55	49	46		54	49	45
10	65	54	47	43	64	53	47	43		53	47	43		52	46	43		51	46	42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18551	18551	18551
5°	18452	18289	18281
10°	18440	17703	17082
15°	18414	16538	13000
20°	18371	13482	9358
25°	18325	10425	4610
30°	18244	7576	1495
35°	18200	3361	385
40°	18105	1365	259
45°	18024	383	276
50°	17884	272	306
55°	17626	323	131
60°	17191	360	79
65°	16484	230	94
70°	15314	204	116
75°	13397	153	160
80°	10017	188	229
85°	4961	243	304



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1066.3	8.7
10°-20°	2666.2	21.8
20°-30°	2887.9	23.6
30°-40°	2138.6	17.5
40°-50°	1540.3	12.6
50°-60°	953.8	7.8
60°-70°	586.5	4.8
70°-80°	309.2	2.5
80°-90°	63.3	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°	6620.3	54.2
0°-40°	8758.9	71.7
0°-60°	11252.9	92.1
0°-90°	12212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11490	11490	11490	11490	11490	
5°	11385	11427	11284	11292	11279	###
15°	11016	10760	9894	8414	7777	3110
25°	10286	9422	5852	3681	2588	4739
35°	9234	6510	1705	401	195	5777
45°	7894	3668	168	121	121	6088
55°	6262	755	115	104	46	5590
65°	4315	80	60	38	25	4257
75°	2148	19	25	32	26	2268
85°	268	7	13	20	16	405
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11489.6	11489.6	11489.6	11489.6	11489.6
2.5°	11415.8	11488.5	11402.7	11466.7	11517.5
5°	11384.7	11426.7	11284.1	11292.3	11279.2
7.5°	11330.0	11320.2	11080.2	10975.3	10929.4
10°	11247.5	11182.4	10797.7	10578.5	10418.9
12.5°	11140.9	10995.5	10445.1	9748.2	9315.3
15°	11016.3	10760.5	9894.1	8414.0	7777.2
17.5°	10867.6	10505.2	8993.4	7051.9	6483.5
20°	10692.1	10220.4	7846.6	5999.8	5446.1
22.5°	10496.5	9873.9	6732.8	4986.4	4196.6
25°	10286.0	9421.9	5851.6	3681.2	2587.5
27.5°	10042.8	8840.9	5025.2	2168.3	1320.5
30°	9785.4	8141.3	4063.8	1166.4	801.8
32.5°	9525.8	7348.2	2875.5	728.6	454.7
35°	9233.9	6509.7	1705.3	401.2	195.2
37.5°	8929.4	5741.3	1007.9	182.6	125.2
40°	8590.0	5038.9	647.7	121.3	123.0
42.5°	8262.1	4384.1	364.6	119.7	121.9
45°	7893.7	3667.5	167.8	121.3	120.8
47.5°	7512.7	2924.7	108.7	122.4	122.4
50°	7119.7	2091.2	108.2	125.2	121.9
52.5°	6704.9	1304.7	112.6	124.6	100.0
55°	6261.6	755.4	114.8	103.8	46.5
57.5°	5802.5	445.4	115.9	59.6	26.2
60°	5323.6	246.5	111.5	44.3	24.6
62.5°	4830.1	117.5	88.0	41.6	24.0
65°	4314.7	79.8	60.1	38.2	24.6
67.5°	3779.6	61.7	47.5	36.1	25.1
70°	3243.9	45.9	43.2	36.1	24.6
72.5°	2699.6	31.2	36.1	36.6	24.6
75°	2147.5	18.6	24.6	32.3	25.7
77.5°	1600.4	11.5	19.1	33.3	31.2
80°	1077.3	9.8	20.2	31.2	24.6
82.5°	632.4	8.8	19.7	24.0	19.7
85°	267.8	7.1	13.1	19.7	16.4
87.5°	50.3	6.0	10.4	15.8	14.2
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)