

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: P730239

Luminaire Tested: **HBLED-LD5-12HE-N-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLI-UNV-L740
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11642.0 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

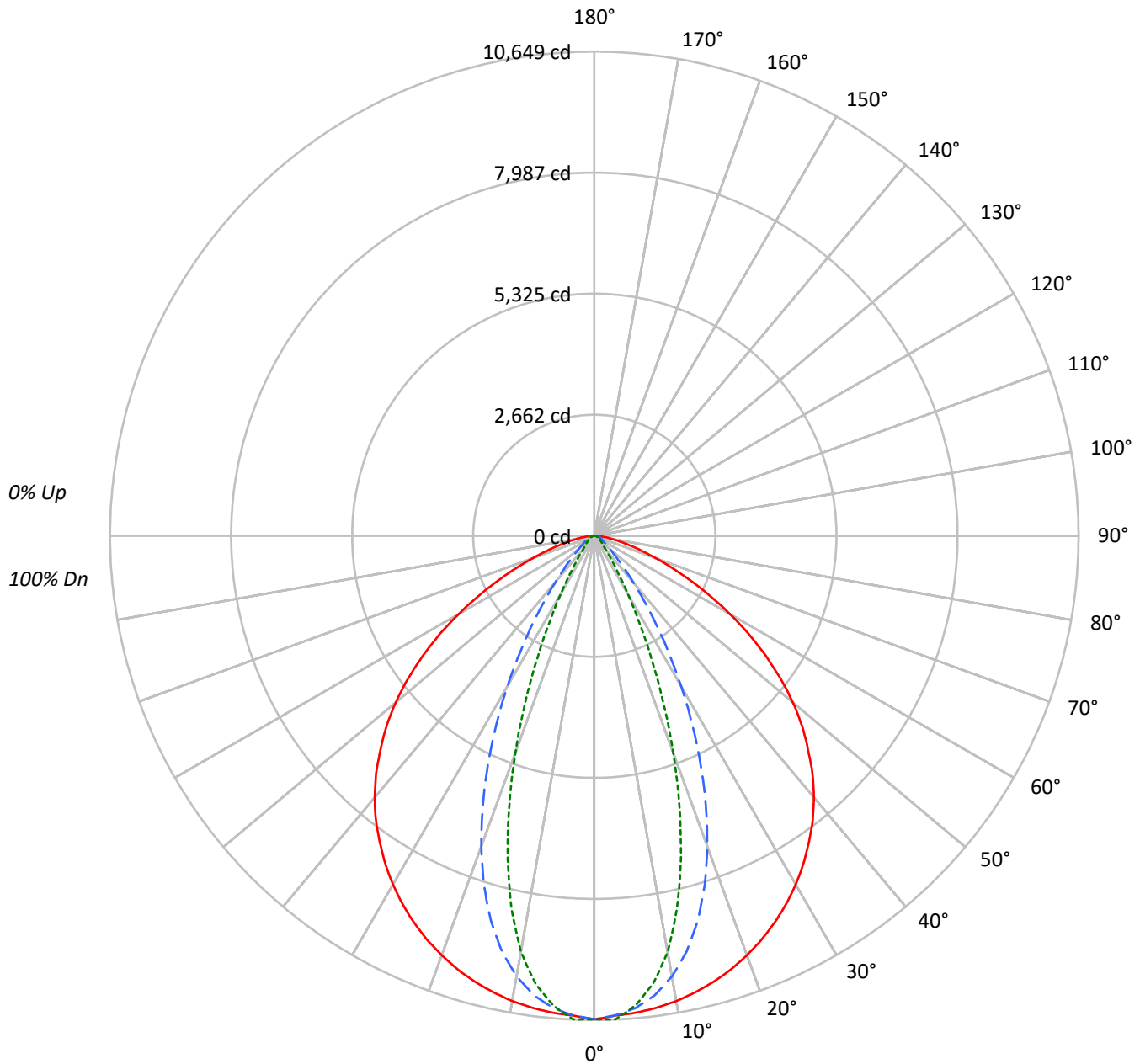
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17170	17170	17170
5°	17066	16897	16808
10°	17038	16131	15222
15°	16969	14663	12294
20°	16867	12477	8713
25°	16717	9839	5265
30°	16514	7101	2706
35°	16215	4642	1351
40°	15831	2788	788
45°	15173	1665	590
50°	14311	1089	495
55°	12952	826	432
60°	11131	704	394
65°	8953	642	372
70°	6745	687	370
75°	4961	654	381
80°	3630	651	417
85°	2720	789	539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	979.3	8.4
10°-20°	2436.4	20.9
20°-30°	2698.7	23.2
30°-40°	2162.1	18.6
40°-50°	1543.5	13.3
50°-60°	991.4	8.5
60°-70°	537.3	4.6
70°-80°	229.7	2.0
80°-90°	63.7	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°	6114.4	52.5
0°-40°	8276.5	71.1
0°-60°	10811.4	92.9
0°-90°	11642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10634	10634	10634	10634	10634	
5°	10530	10569	10425	10392	10370	###
15°	10152	9834	8772	7752	7355	2864
25°	9383	8274	5523	3598	2955	4323
35°	8227	5951	2355	950	686	5144
45°	6645	3435	729	310	258	5122
55°	4601	1536	294	180	154	4101
65°	2344	631	168	116	97	2347
75°	795	231	105	73	61	884
85°	147	61	43	35	29	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10634.1	10634.1	10634.1	10634.1	10634.1
2.5°	10564.1	10630.2	10559.0	10603.3	10648.7
5°	10529.9	10569.2	10425.2	10392.1	10370.3
7.5°	10470.5	10459.4	10188.9	10013.5	9928.9
10°	10392.1	10301.4	9839.3	9454.0	9284.8
12.5°	10280.1	10093.1	9366.0	8689.4	8402.7
15°	10151.9	9834.3	8772.3	7752.4	7354.7
17.5°	9998.4	9531.8	8062.7	6747.6	6222.8
20°	9816.9	9166.7	7261.8	5680.0	5071.2
22.5°	9614.2	8745.5	6404.2	4615.8	3962.8
25°	9383.4	8273.8	5522.6	3598.1	2955.1
27.5°	9134.2	7750.2	4646.1	2688.5	2102.0
30°	8857.5	7183.3	3808.7	1938.5	1451.2
32.5°	8555.6	6580.7	3030.7	1363.3	992.5
35°	8226.8	5950.6	2355.2	949.9	685.6
37.5°	7890.2	5307.5	1778.9	671.5	491.8
40°	7511.0	4666.8	1323.0	491.8	374.1
42.5°	7103.8	4038.3	979.1	378.6	303.0
45°	6645.1	3435.1	729.3	310.3	258.2
47.5°	6200.4	2872.8	553.9	264.4	224.6
50°	5697.4	2365.3	433.5	230.8	197.1
52.5°	5163.6	1918.9	351.7	203.3	173.6
55°	4601.2	1535.8	293.5	180.3	153.5
57.5°	4031.6	1216.5	250.9	160.7	136.7
60°	3446.9	972.9	217.9	143.9	122.1
62.5°	2876.2	778.0	190.4	129.4	109.2
65°	2343.5	630.6	168.0	115.9	97.4
67.5°	1851.1	498.5	156.8	104.2	88.0
70°	1428.8	388.1	145.6	93.0	78.4
72.5°	1082.7	298.0	128.9	82.9	69.5
75°	795.3	230.8	104.8	72.8	61.0
77.5°	569.1	177.6	85.1	63.3	52.7
80°	390.4	132.2	70.0	54.3	44.8
82.5°	253.8	93.6	56.6	44.8	36.9
85°	146.8	61.0	42.6	35.3	29.1
87.5°	63.3	33.6	29.1	26.3	22.4
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)