

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: P730242

Luminaire Tested: **HBLED-LD5-12HE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730242
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-L840
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: 11113.0 lumens
Efficiency: N/A
Efficacy: 152.9 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

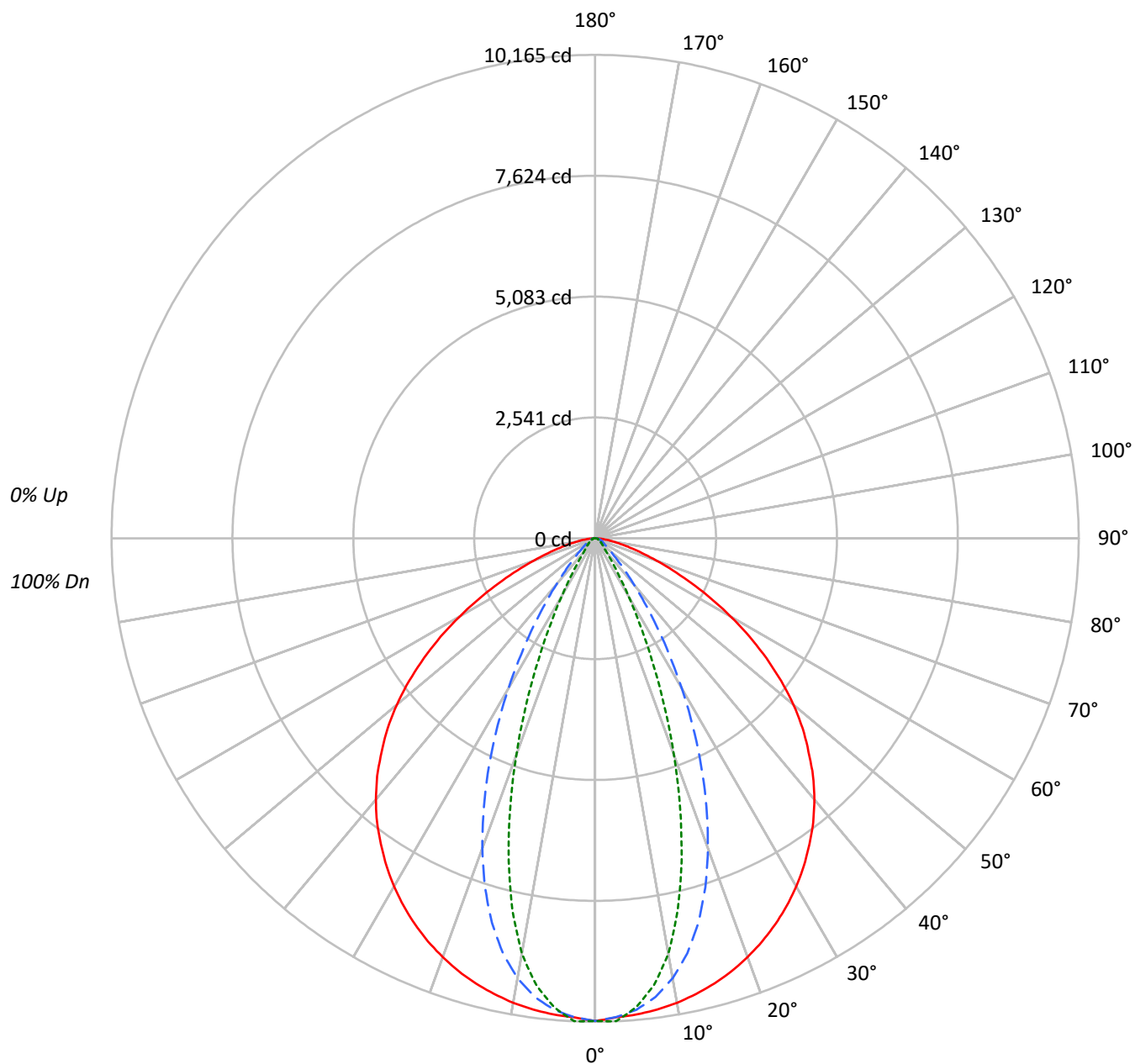
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16390	16390	16390
5°	16291	16129	16044
10°	16264	15398	14531
15°	16198	13997	11735
20°	16101	11910	8317
25°	15957	9392	5025
30°	15763	6778	2583
35°	15479	4431	1290
40°	15112	2662	753
45°	14484	1589	563
50°	13661	1039	473
55°	12364	788	412
60°	10625	672	376
65°	8546	613	355
70°	6439	656	354
75°	4736	624	364
80°	3464	621	398
85°	2595	754	515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.8	8.4
10°-20°	2325.7	20.9
20°-30°	2576.1	23.2
30°-40°	2063.9	18.6
40°-50°	1473.3	13.3
50°-60°	946.3	8.5
60°-70°	512.9	4.6
70°-80°	219.2	2.0
80°-90°	60.8	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°	5836.6	52.5
0°-40°	7900.5	71.1
0°-60°	10320.1	92.9
0°-90°	11113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10151	10151	10151	10151	10151	
5°	10052	10089	9952	9920	9899	955
15°	9691	9387	8374	7400	7020	2734
25°	8957	7898	5272	3435	2821	4126
35°	7853	5680	2248	907	654	4910
45°	6343	3279	696	296	246	4889
55°	4392	1466	280	172	146	3914
65°	2237	602	160	111	93	2240
75°	759	220	100	70	58	844
85°	140	58	41	34	28	171
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10150.9	10150.9	10150.9	10150.9	10150.9
2.5°	10084.1	10147.2	10079.3	10121.5	10164.8
5°	10051.5	10088.9	9951.5	9919.9	9899.1
7.5°	9994.8	9984.1	9725.9	9558.5	9477.8
10°	9919.9	9833.3	9392.2	9024.4	8863.0
12.5°	9813.0	9634.5	8940.5	8294.6	8020.9
15°	9690.6	9387.4	8373.7	7400.2	7020.5
17.5°	9544.1	9098.7	7696.3	6441.0	5940.0
20°	9370.9	8750.1	6931.8	5421.9	4840.7
22.5°	9177.3	8348.1	6113.2	4406.1	3782.7
25°	8957.0	7897.9	5271.7	3434.6	2820.8
27.5°	8719.1	7398.0	4435.0	2566.3	2006.5
30°	8455.0	6856.9	3635.6	1850.5	1385.3
32.5°	8166.8	6281.7	2893.0	1301.3	947.4
35°	7853.0	5680.2	2248.2	906.8	654.4
37.5°	7531.6	5066.4	1698.1	641.0	469.4
40°	7169.7	4454.7	1262.9	469.4	357.1
42.5°	6781.0	3854.8	934.6	361.4	289.2
45°	6343.1	3279.0	696.1	296.2	246.5
47.5°	5918.6	2742.3	528.8	252.3	214.4
50°	5438.5	2257.9	413.8	220.3	188.2
52.5°	4929.0	1831.7	335.8	194.1	165.7
55°	4392.2	1466.0	280.1	172.2	146.5
57.5°	3848.4	1161.2	239.5	153.4	130.5
60°	3290.3	928.7	208.0	137.4	116.5
62.5°	2745.5	742.6	181.8	123.5	104.3
65°	2237.0	602.0	160.4	110.7	93.0
67.5°	1767.0	475.8	149.7	99.4	84.0
70°	1363.9	370.5	139.0	88.7	74.9
72.5°	1033.5	284.5	123.0	79.1	66.3
75°	759.2	220.3	100.0	69.5	58.3
77.5°	543.2	169.5	81.3	60.4	50.3
80°	372.6	126.2	66.8	51.9	42.8
82.5°	242.2	89.3	54.0	42.8	35.3
85°	140.1	58.3	40.7	33.7	27.8
87.5°	60.4	32.1	27.8	25.1	21.4
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)