

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: P730245

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730245
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-L740
Description: 12000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12582.0 lumens
Efficiency: N/A
Efficacy: 173.1 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

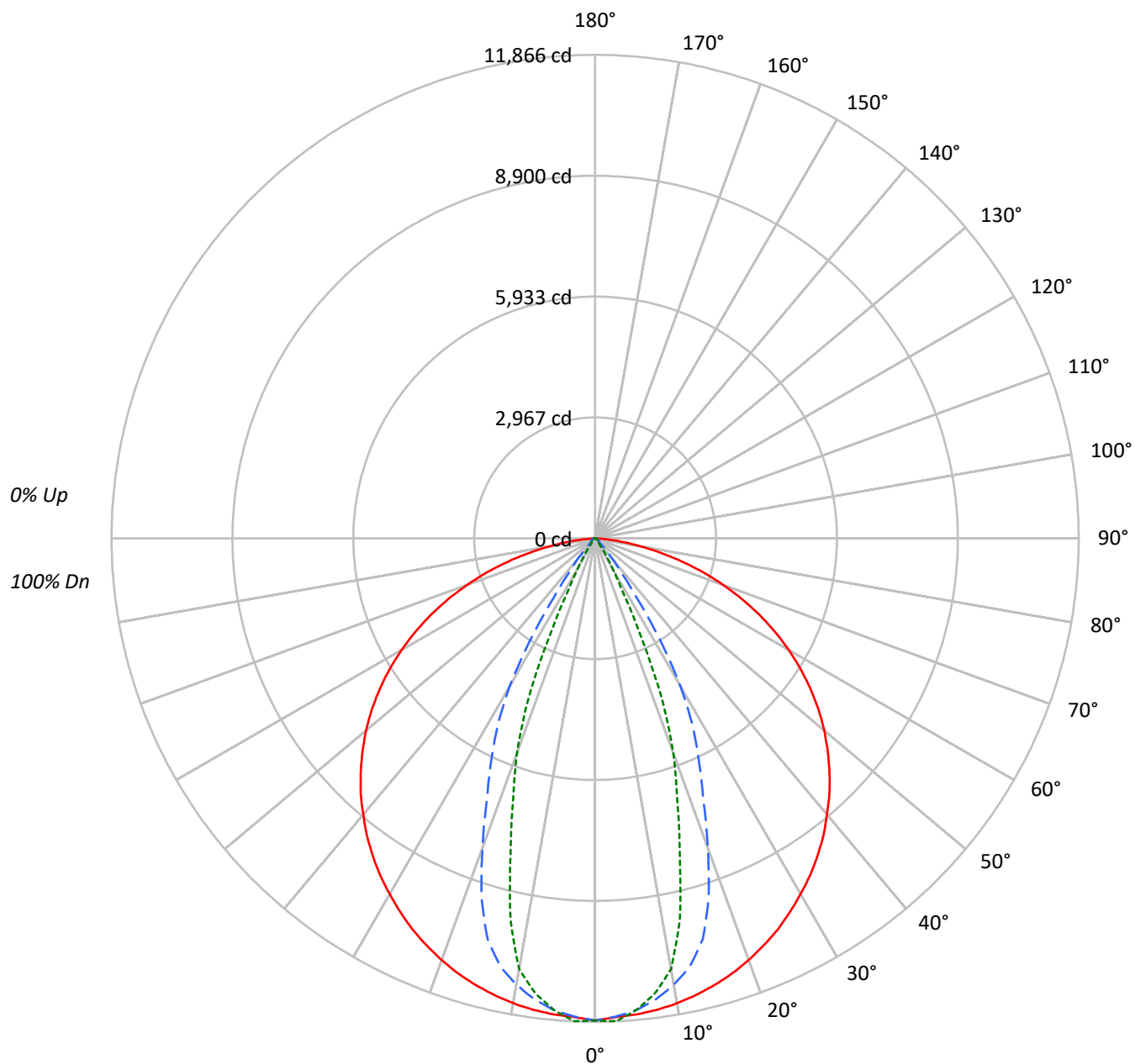
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	19113	19113	19113
5°	19011	18843	18835
10°	18999	18239	17599
15°	18972	17040	13394
20°	18928	13891	9641
25°	18880	10740	4749
30°	18796	7806	1540
35°	18752	3463	396
40°	18654	1406	267
45°	18570	395	284
50°	18426	280	315
55°	18160	333	135
60°	17712	371	82
65°	16983	236	97
70°	15778	210	120
75°	13802	158	165
80°	10320	193	236
85°	5111	250	313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1098.6	8.7
10°-20°	2746.9	21.8
20°-30°	2975.4	23.6
30°-40°	2203.4	17.5
40°-50°	1587.0	12.6
50°-60°	982.7	7.8
60°-70°	604.3	4.8
70°-80°	318.6	2.5
80°-90°	65.2	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°	6820.9	54.2
0°-40°	9024.2	71.7
0°-60°	11593.9	92.1
0°-90°	12582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11838	11838	11838	11838	11838	
5°	11730	11773	11626	11634	11621	###
15°	11350	11086	10194	8669	8013	3204
25°	10598	9707	6029	3793	2666	4883
35°	9514	6707	1757	413	201	5952
45°	8133	3779	173	125	124	6272
55°	6451	778	118	107	48	5759
65°	4445	82	62	39	25	4386
75°	2212	19	25	33	26	2337
85°	276	7	14	20	17	417
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11837.7	11837.7	11837.7	11837.7	11837.7
2.5°	11761.7	11836.6	11748.2	11814.1	11866.4
5°	11729.6	11773.0	11626.0	11634.4	11620.9
7.5°	11673.3	11663.1	11415.9	11307.8	11260.5
10°	11588.3	11521.2	11124.8	10899.0	10734.5
12.5°	11478.5	11328.7	10761.6	10043.6	9597.6
15°	11350.0	11086.5	10193.9	8669.0	8012.9
17.5°	11196.9	10823.5	9265.9	7265.6	6680.0
20°	11016.1	10530.1	8084.4	6181.6	5611.1
22.5°	10814.5	10173.1	6936.8	5137.5	4323.8
25°	10597.7	9707.4	6028.9	3792.7	2665.9
27.5°	10347.1	9108.8	5177.5	2234.0	1360.6
30°	10081.9	8387.9	4186.9	1201.7	826.1
32.5°	9814.4	7570.8	2962.7	750.7	468.5
35°	9513.7	6707.0	1757.0	413.3	201.1
37.5°	9200.0	5915.2	1038.4	188.1	129.0
40°	8850.3	5191.6	667.3	125.0	126.7
42.5°	8512.4	4516.9	375.6	123.3	125.6
45°	8132.8	3778.6	172.9	125.0	124.4
47.5°	7740.3	3013.3	112.0	126.1	126.1
50°	7335.5	2154.6	111.5	129.0	125.6
52.5°	6908.0	1344.2	116.0	128.4	103.1
55°	6451.3	778.3	118.2	107.0	47.9
57.5°	5978.3	458.9	119.4	61.4	27.0
60°	5484.9	254.0	114.9	45.6	25.4
62.5°	4976.4	121.1	90.7	42.8	24.8
65°	4445.4	82.2	61.9	39.4	25.4
67.5°	3894.1	63.6	49.0	37.2	25.9
70°	3342.2	47.3	44.5	37.2	25.4
72.5°	2781.4	32.1	37.2	37.7	25.4
75°	2212.5	19.2	25.4	33.2	26.4
77.5°	1648.9	11.8	19.7	34.3	32.1
80°	1109.9	10.1	20.8	32.1	25.4
82.5°	651.6	9.0	20.3	24.8	20.3
85°	275.9	7.3	13.5	20.3	16.9
87.5°	51.8	6.2	10.7	16.3	14.6
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)