

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: P730317

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730317
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-LD5-12SE-N-UNV-L740
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12322.0 lumens
Efficiency: N/A
Efficacy: 164.3 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

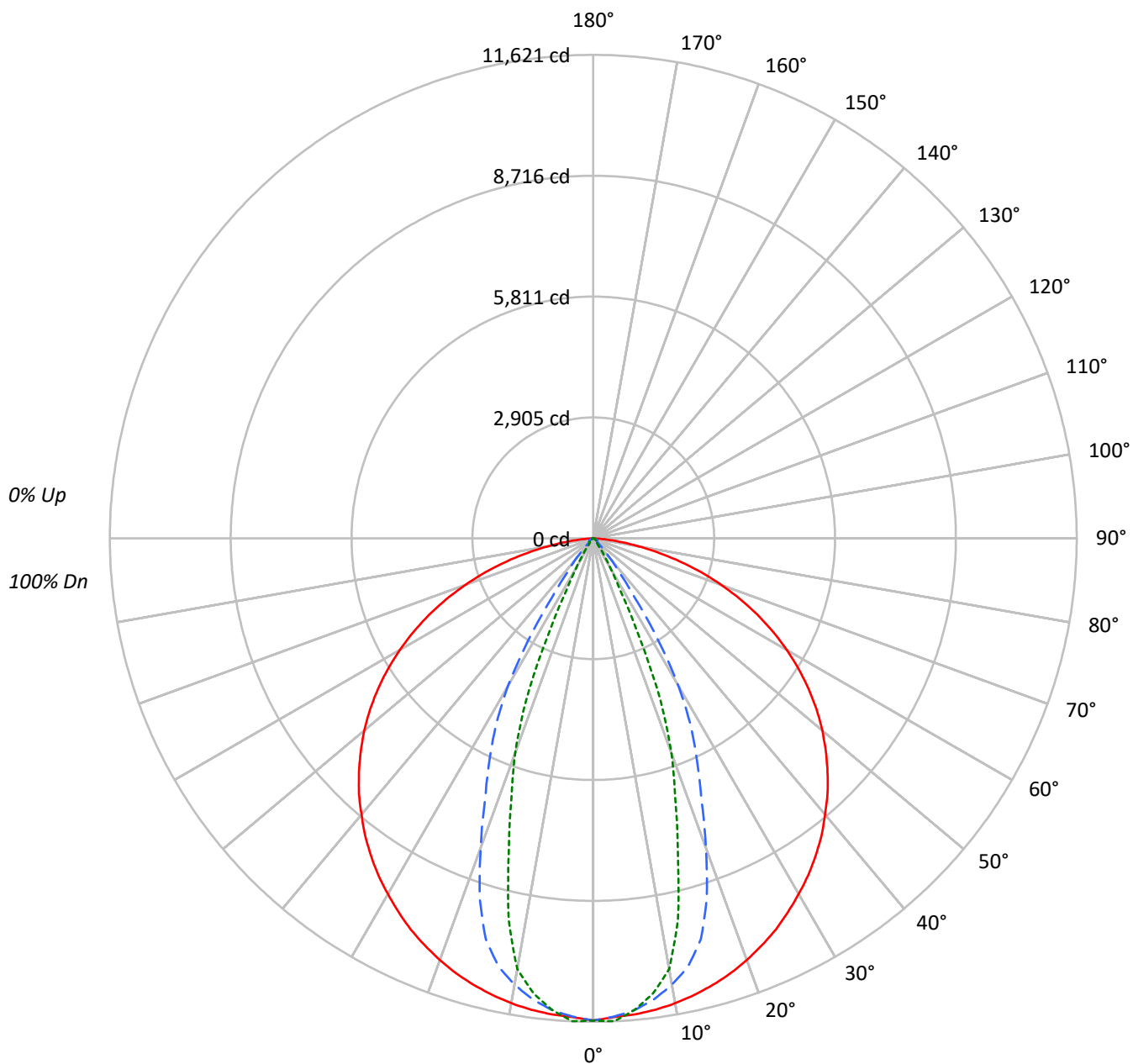
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	18718	18718	18718
5°	18618	18453	18445
10°	18606	17862	17236
15°	18580	16688	13117
20°	18537	13604	9442
25°	18490	10519	4651
30°	18408	7645	1508
35°	18364	3392	388
40°	18268	1377	262
45°	18187	387	278
50°	18045	274	309
55°	17785	326	132
60°	17346	363	80
65°	16632	232	95
70°	15452	206	117
75°	13517	155	162
80°	10107	190	231
85°	5006	245	306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1075.9	8.7
10°-20°	2690.2	21.8
20°-30°	2913.9	23.6
30°-40°	2157.9	17.5
40°-50°	1554.2	12.6
50°-60°	962.4	7.8
60°-70°	591.8	4.8
70°-80°	312.0	2.5
80°-90°	63.9	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°	6679.9	54.2
0°-40°	8837.8	71.7
0°-60°	11354.3	92.1
0°-90°	12322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11593	11593	11593	11593	11593	
5°	11487	11530	11386	11394	11381	###
15°	11116	10857	9983	8490	7847	3138
25°	10379	9507	5904	3714	2611	4782
35°	9317	6568	1721	405	197	5829
45°	7965	3700	169	122	122	6142
55°	6318	762	116	105	47	5640
65°	4354	80	61	39	25	4295
75°	2167	19	25	33	26	2289
85°	270	7	13	20	16	408
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11593.1	11593.1	11593.1	11593.1	11593.1
2.5°	11518.6	11592.0	11505.4	11570.0	11621.2
5°	11487.2	11529.7	11385.7	11394.0	11380.8
7.5°	11432.0	11422.1	11180.0	11074.1	11027.8
10°	11348.8	11283.1	10894.9	10673.8	10512.7
12.5°	11241.3	11094.6	10539.2	9836.0	9399.2
15°	11115.5	10857.4	9983.3	8489.8	7847.3
17.5°	10965.5	10599.8	9074.4	7115.5	6541.9
20°	10788.4	10312.5	7917.3	6053.8	5495.2
22.5°	10591.0	9962.9	6793.4	5031.3	4234.4
25°	10378.7	9506.8	5904.4	3714.3	2610.8
27.5°	10133.3	8920.5	5070.5	2187.8	1332.4
30°	9873.5	8214.6	4100.4	1176.9	809.1
32.5°	9611.6	7414.4	2901.4	735.2	458.8
35°	9317.1	6568.4	1720.7	404.8	196.9
37.5°	9009.9	5793.0	1017.0	184.2	126.3
40°	8667.4	5084.3	653.5	122.4	124.1
42.5°	8336.5	4423.6	367.9	120.8	123.0
45°	7964.8	3700.5	169.3	122.4	121.9
47.5°	7580.4	2951.1	109.7	123.5	123.5
50°	7183.9	2110.1	109.2	126.3	123.0
52.5°	6765.3	1316.5	113.6	125.8	100.9
55°	6318.0	762.2	115.8	104.8	46.9
57.5°	5854.7	449.5	116.9	60.1	26.5
60°	5371.6	248.7	112.5	44.7	24.8
62.5°	4873.6	118.6	88.8	41.9	24.2
65°	4353.5	80.5	60.6	38.6	24.8
67.5°	3813.6	62.3	48.0	36.4	25.4
70°	3273.2	46.3	43.6	36.4	24.8
72.5°	2723.9	31.4	36.4	36.9	24.8
75°	2166.8	18.8	24.8	32.6	25.9
77.5°	1614.8	11.6	19.3	33.6	31.4
80°	1087.0	9.9	20.4	31.4	24.8
82.5°	638.1	8.8	19.9	24.2	19.9
85°	270.2	7.2	13.2	19.9	16.5
87.5°	50.7	6.1	10.5	16.0	14.3
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)