

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: P730311

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730311
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-LD5-12SE-N-CLI-UNV-L740
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11401.0 lumens
Efficiency: N/A
Efficacy: 152.0 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

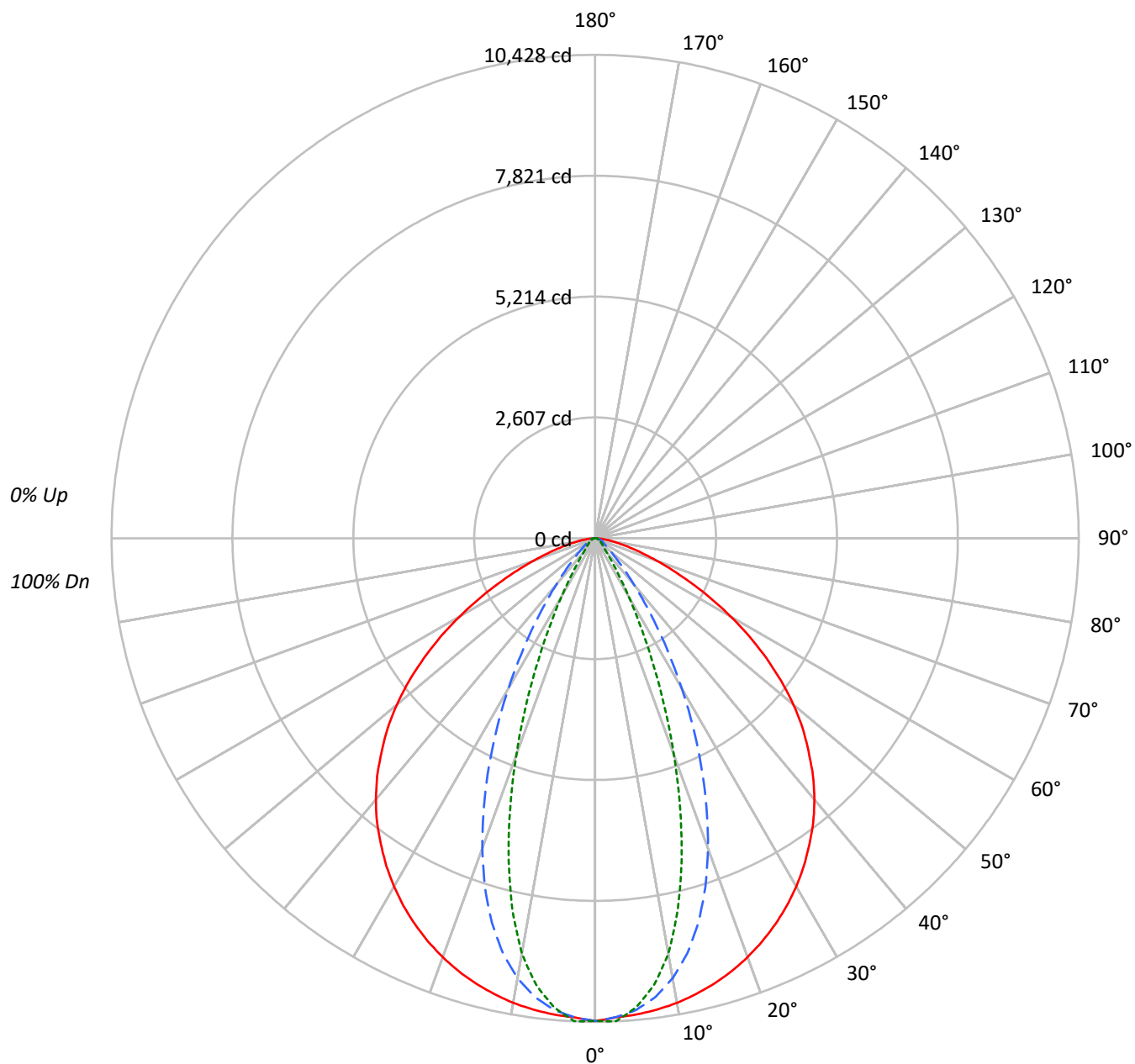
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	16814	16814	16814
5°	16713	16547	16460
10°	16685	15798	14907
15°	16618	14360	12039
20°	16518	12219	8533
25°	16371	9635	5155
30°	16172	6954	2650
35°	15880	4546	1323
40°	15503	2731	772
45°	14859	1631	577
50°	14015	1066	485
55°	12684	809	423
60°	10900	689	386
65°	8768	629	364
70°	6605	673	363
75°	4859	640	373
80°	3555	637	408
85°	2662	773	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	959.1	8.4
10°-20°	2386.0	20.9
20°-30°	2642.8	23.2
30°-40°	2117.4	18.6
40°-50°	1511.5	13.3
50°-60°	970.9	8.5
60°-70°	526.1	4.6
70°-80°	224.9	2.0
80°-90°	62.4	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°	5987.8	52.5
0°-40°	8105.2	71.1
0°-60°	10587.6	92.9
0°-90°	11401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10414	10414	10414	10414	10414	
5°	10312	10350	10209	10177	10156	980
15°	9942	9631	8591	7592	7202	2805
25°	9189	8103	5408	3524	2894	4233
35°	8056	5827	2306	930	671	5037
45°	6508	3364	714	304	253	5016
55°	4506	1504	287	177	150	4016
65°	2295	618	165	114	95	2298
75°	779	226	103	71	60	865
85°	144	60	42	35	28	176
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10414.0	10414.0	10414.0	10414.0	10414.0
2.5°	10345.4	10410.2	10340.5	10383.8	10428.2
5°	10312.0	10350.4	10209.4	10177.0	10155.7
7.5°	10253.8	10242.8	9977.9	9806.2	9723.4
10°	10177.0	10088.2	9635.6	9258.3	9092.6
12.5°	10067.3	9884.1	9172.1	8509.6	8228.7
15°	9941.7	9630.7	8590.7	7591.9	7202.5
17.5°	9791.4	9334.5	7895.8	6607.9	6093.9
20°	9613.7	8976.9	7111.4	5562.4	4966.2
22.5°	9415.2	8564.4	6271.6	4520.2	3880.7
25°	9189.2	8102.6	5408.3	3523.6	2893.9
27.5°	8945.1	7589.7	4549.9	2632.8	2058.5
30°	8674.1	7034.6	3729.8	1898.4	1421.2
32.5°	8378.5	6444.4	2968.0	1335.1	972.0
35°	8056.5	5827.4	2306.5	930.3	671.4
37.5°	7726.8	5197.7	1742.1	657.6	481.6
40°	7355.5	4570.1	1295.6	481.6	366.4
42.5°	6956.7	3954.7	958.8	370.8	296.7
45°	6507.5	3364.0	714.2	303.9	252.9
47.5°	6072.0	2813.3	542.5	258.9	219.9
50°	5579.4	2316.4	424.5	226.0	193.1
52.5°	5056.7	1879.2	344.5	199.1	170.0
55°	4506.0	1504.0	287.4	176.6	150.3
57.5°	3948.2	1191.3	245.7	157.4	133.9
60°	3375.5	952.8	213.4	141.0	119.5
62.5°	2816.6	761.9	186.5	126.7	107.0
65°	2295.0	617.6	164.6	113.5	95.4
67.5°	1812.8	488.2	153.6	102.0	86.1
70°	1399.2	380.1	142.6	91.0	76.8
72.5°	1060.2	291.8	126.2	81.2	68.0
75°	778.9	226.0	102.6	71.3	59.8
77.5°	557.3	173.9	83.4	62.0	51.6
80°	382.3	129.5	68.5	53.2	43.9
82.5°	248.5	91.6	55.4	43.9	36.2
85°	143.7	59.8	41.7	34.6	28.5
87.5°	62.0	32.9	28.5	25.8	21.9
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)