

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: P730308

Luminaire Tested: **HBLED-LD5-12SE-N-CL-WG-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-CL-WG-UNV-L840
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10834.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

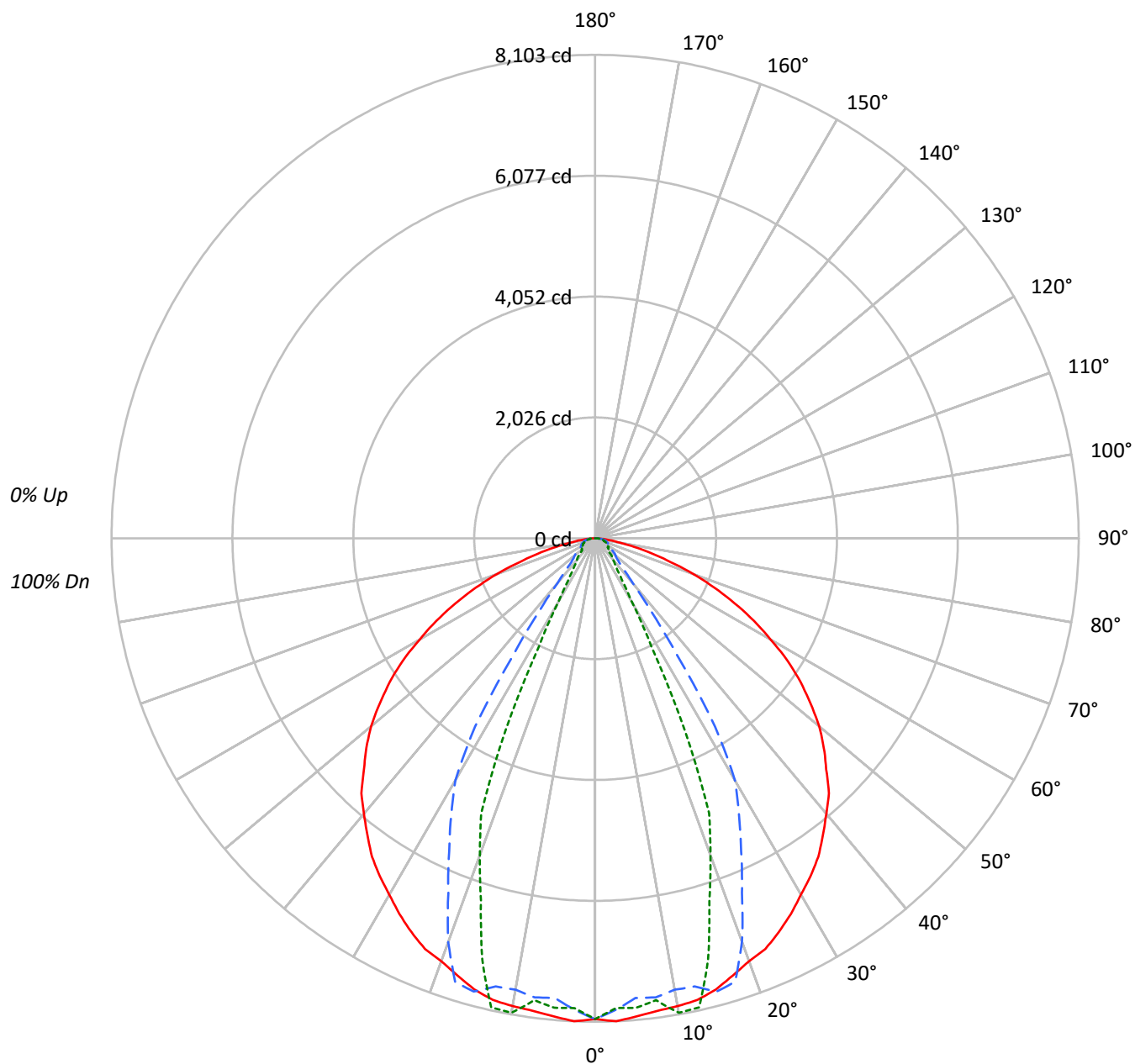
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13012	13012	13012
5°	13033	12537	12801
10°	13052	12597	13244
15°	13081	13149	12221
20°	12958	12368	9701
25°	12976	10310	6337
30°	12860	8735	2276
35°	12846	4732	1280
40°	12701	2063	1003
45°	12504	1275	786
50°	12310	1110	742
55°	11826	963	726
60°	10972	863	780
65°	9862	975	853
70°	8271	1048	879
75°	6183	1196	952
80°	3884	1389	1085
85°	2586	1740	1589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.9	6.9
10°-20°	2109.2	19.5
20°-30°	2582.8	23.8
30°-40°	2028.3	18.7
40°-50°	1504.1	13.9
50°-60°	915.7	8.5
60°-70°	548.5	5.1
70°-80°	300.9	2.8
80°-90°	97.6	0.9
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°	5438.9	50.2
0°-40°	7467.2	68.9
0°-60°	9887.0	91.3
0°-90°	10834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8059	8059	8059	8059	8059	
5°	8042	7823	7735	7820	7898	765
15°	7826	7611	7867	7549	7312	2203
25°	7284	7307	5788	4539	3557	3353
35°	6518	5929	2401	803	650	4067
45°	5476	3932	558	423	344	4235
55°	4201	1084	342	290	258	3739
65°	2582	319	255	240	223	2550
75°	991	202	192	167	153	1073
85°	140	110	94	86	86	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8058.9	8058.9	8058.9	8058.9	8058.9
2.5°	8102.9	7993.7	7910.1	7863.4	7882.3
5°	8041.5	7822.6	7735.2	7820.4	7898.1
7.5°	7988.2	7662.9	7761.8	7769.4	7810.1
10°	7961.1	7647.7	7683.5	7852.5	8077.9
12.5°	7925.3	7683.0	7695.5	7925.8	8052.9
15°	7825.9	7611.3	7866.6	7548.9	7311.5
17.5°	7680.9	7444.0	7794.9	6687.5	6364.9
20°	7541.3	7262.1	7198.0	5957.0	5645.8
22.5°	7451.1	7234.4	6430.1	5307.9	4986.4
25°	7283.8	7306.6	5787.5	4539.4	3556.9
27.5°	7099.7	7136.7	5219.4	3027.4	2037.8
30°	6897.7	6940.1	4685.0	1789.0	1221.0
32.5°	6714.7	6475.7	3741.6	1116.1	848.9
35°	6517.5	5928.7	2400.6	803.3	649.6
37.5°	6269.3	5354.1	1519.7	635.4	545.3
40°	6026.0	4838.1	978.7	542.6	475.8
42.5°	5798.4	4412.9	712.0	474.2	429.6
45°	5476.3	3932.2	558.3	423.1	344.3
47.5°	5197.7	3368.5	488.3	357.9	297.1
50°	4900.6	2575.5	442.1	318.3	295.5
52.5°	4548.1	1684.7	408.4	304.7	275.9
55°	4201.1	1083.6	342.2	289.5	258.0
57.5°	3826.3	687.0	302.0	280.8	269.4
60°	3397.8	463.3	267.2	266.1	241.7
62.5°	3001.3	380.7	258.0	255.3	228.7
65°	2581.5	319.4	255.3	240.1	223.2
67.5°	2162.2	273.8	230.8	219.4	204.7
70°	1752.1	250.4	222.1	217.3	186.3
72.5°	1330.6	206.4	197.2	184.1	154.8
75°	991.2	201.5	191.7	166.7	152.6
77.5°	670.8	185.8	174.4	149.4	138.0
80°	417.7	170.5	149.4	130.9	116.7
82.5°	248.2	142.3	122.8	108.1	98.8
85°	139.6	109.7	93.9	86.4	85.8
87.5°	29.9	39.6	31.5	29.9	21.2
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)