

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: P730320

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730320
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-L840
Description: 12000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11762.0 lumens
Efficiency: N/A
Efficacy: 156.8 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

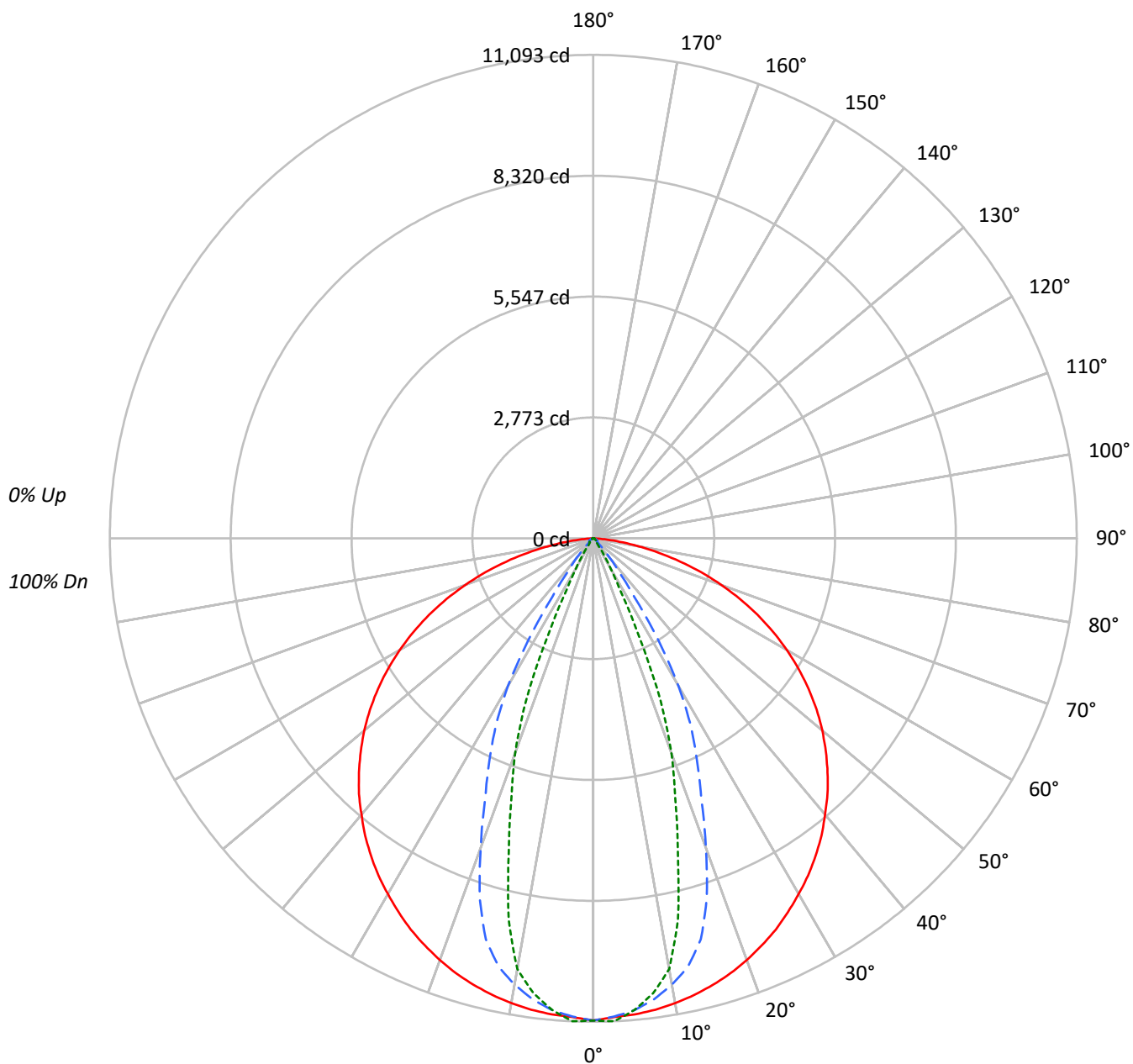
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	17867	17867	17867
5°	17772	17615	17607
10°	17761	17050	16452
15°	17736	15929	12521
20°	17694	12985	9013
25°	17649	10041	4440
30°	17571	7297	1440
35°	17530	3237	371
40°	17438	1315	250
45°	17360	369	266
50°	17225	262	295
55°	16977	311	126
60°	16558	347	77
65°	15877	221	91
70°	14749	196	112
75°	12903	148	154
80°	9648	181	220
85°	4780	233	293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1027.0	8.7
10°-20°	2567.9	21.8
20°-30°	2781.4	23.6
30°-40°	2059.8	17.5
40°-50°	1483.6	12.6
50°-60°	918.6	7.8
60°-70°	564.9	4.8
70°-80°	297.8	2.5
80°-90°	61.0	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°	6376.3	54.2
0°-40°	8436.1	71.7
0°-60°	10838.3	92.1
0°-90°	11762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11066	11066	11066	11066	11066	
5°	10965	11006	10868	10876	10864	###
15°	10610	10364	9530	8104	7491	2995
25°	9907	9075	5636	3546	2492	4565
35°	8894	6270	1642	386	188	5564
45°	7603	3532	162	117	116	5863
55°	6031	728	110	100	45	5384
65°	4156	77	58	37	24	4100
75°	2068	18	24	31	25	2185
85°	258	7	13	19	16	390
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11066.2	11066.2	11066.2	11066.2	11066.2
2.5°	10995.2	11065.2	10982.5	11044.1	11093.1
5°	10965.1	11005.7	10868.3	10876.2	10863.6
7.5°	10912.5	10903.0	10671.9	10570.9	10526.6
10°	10833.0	10770.4	10399.8	10188.7	10034.9
12.5°	10730.4	10590.3	10060.2	9389.0	8972.1
15°	10610.3	10364.0	9529.6	8104.0	7490.7
17.5°	10467.1	10118.1	8662.0	6792.1	6244.6
20°	10298.1	9843.8	7557.5	5778.7	5245.4
22.5°	10109.7	9510.1	6484.7	4802.7	4042.0
25°	9907.0	9074.7	5636.0	3545.5	2492.1
27.5°	9672.8	8515.1	4840.1	2088.4	1271.9
30°	9424.8	7841.3	3914.0	1123.4	772.3
32.5°	9174.7	7077.4	2769.6	701.7	438.0
35°	8893.6	6269.8	1642.5	386.4	188.0
37.5°	8600.4	5529.7	970.7	175.9	120.6
40°	8273.5	4853.2	623.8	116.8	118.4
42.5°	7957.6	4222.6	351.2	115.3	117.4
45°	7602.8	3532.4	161.6	116.8	116.3
47.5°	7235.9	2816.9	104.7	117.9	117.9
50°	6857.4	2014.2	104.2	120.6	117.4
52.5°	6457.8	1256.6	108.5	120.1	96.3
55°	6030.9	727.5	110.5	100.0	44.8
57.5°	5588.7	429.0	111.6	57.4	25.3
60°	5127.5	237.4	107.4	42.6	23.7
62.5°	4652.1	113.2	84.7	40.0	23.1
65°	4155.7	76.9	57.9	36.8	23.7
67.5°	3640.3	59.5	45.8	34.7	24.2
70°	3124.4	44.2	41.6	34.7	23.7
72.5°	2600.1	30.0	34.7	35.3	23.7
75°	2068.3	17.9	23.7	31.1	24.7
77.5°	1541.4	11.0	18.4	32.1	30.0
80°	1037.6	9.5	19.5	30.0	23.7
82.5°	609.1	8.4	19.0	23.1	19.0
85°	258.0	6.9	12.6	19.0	15.8
87.5°	48.4	5.8	10.0	15.3	13.7
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)