

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: P730338

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-CL-UNV-L840
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11017.0 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

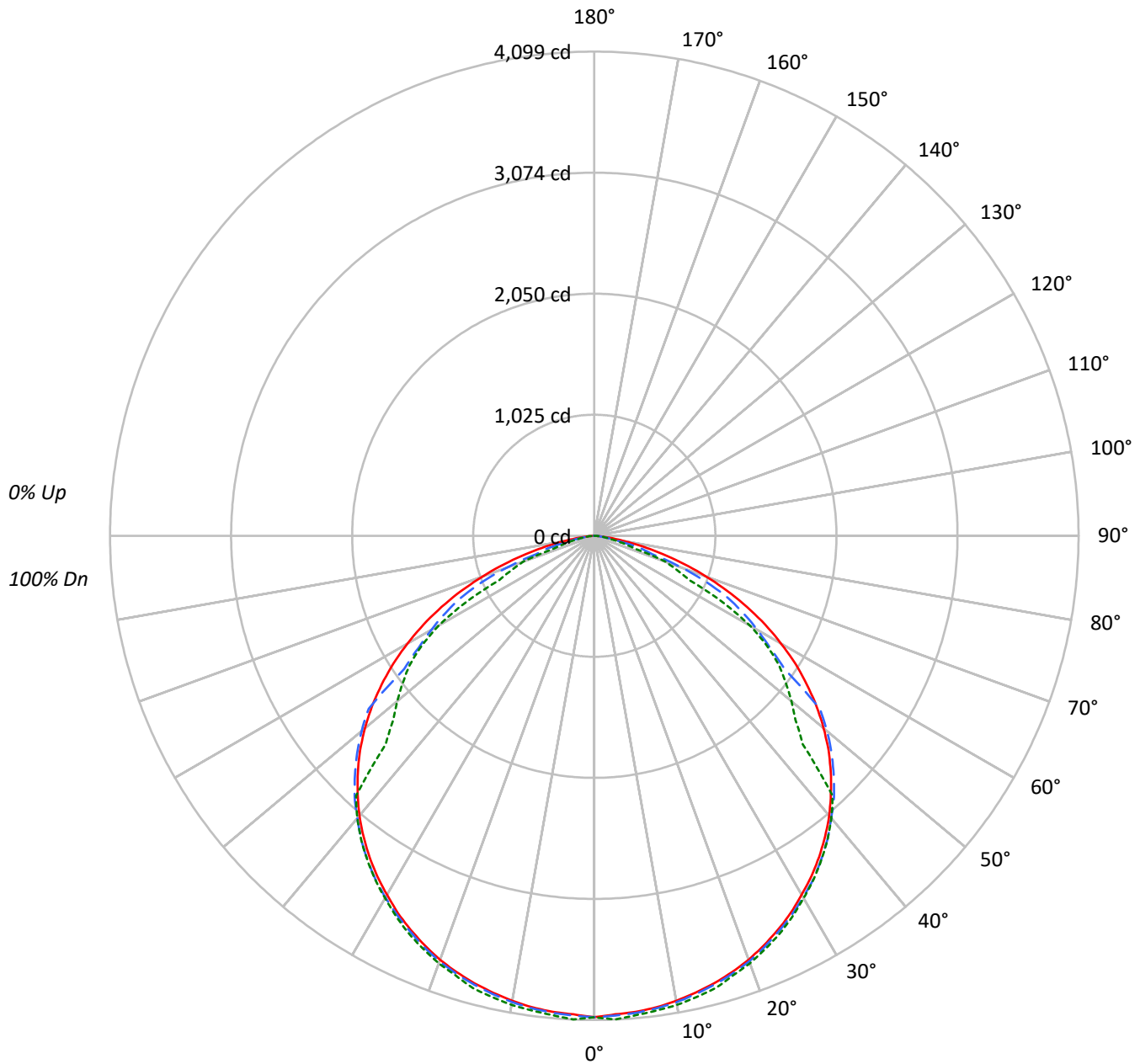
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6580	6580	6580
5°	6556	6570	6602
10°	6555	6574	6612
15°	6555	6575	6628
20°	6563	6588	6618
25°	6555	6580	6620
30°	6543	6591	6606
35°	6540	6599	6604
40°	6520	6577	6577
45°	6464	6542	5700
50°	6364	6460	5469
55°	6183	5530	5372
60°	5893	5140	4908
65°	5450	4771	3399
70°	4745	3713	3029
75°	3749	2492	1628
80°	2413	1190	1014
85°	993	726	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	3.5
10°-20°	1114.2	10.1
20°-30°	1708.3	15.5
30°-40°	2093.7	19.0
40°-50°	2152.5	19.5
50°-60°	1837.1	16.7
60°-70°	1214.5	11.0
70°-80°	450.0	4.1
80°-90°	60.2	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°	3209.0	29.1
0°-40°	5302.8	48.1
0°-60°	9292.3	84.3
0°-90°	11017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4075	4075	4075	4075	4075	
5°	4045	4073	4054	4070	4074	385
15°	3921	3945	3933	3963	3965	1108
25°	3680	3699	3694	3727	3716	1697
35°	3318	3341	3348	3369	3351	2075
45°	2831	2859	2865	2860	2496	2181
55°	2197	2237	1964	1907	1908	1960
65°	1426	1438	1249	1027	890	1407
75°	601	526	399	268	261	645
85°	54	38	39	43	43	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4075.1	4075.1	4075.1	4075.1	4075.1
2.5°	4055.3	4080.6	4065.7	4084.6	4098.9
5°	4044.9	4073.2	4053.8	4069.7	4073.7
7.5°	4027.0	4053.3	4035.4	4056.3	4053.3
10°	3998.3	4022.0	4009.7	4031.5	4032.9
12.5°	3961.5	3985.3	3973.9	4000.7	4000.2
15°	3921.3	3945.2	3933.2	3963.0	3965.0
17.5°	3874.2	3896.0	3887.1	3914.4	3903.4
20°	3819.6	3838.5	3834.0	3859.8	3851.8
22.5°	3752.6	3772.0	3767.5	3797.3	3785.4
25°	3679.7	3699.1	3693.6	3726.8	3715.9
27.5°	3600.8	3619.1	3618.6	3649.9	3633.1
30°	3509.5	3533.8	3535.3	3563.1	3543.2
32.5°	3419.2	3442.0	3448.5	3468.8	3452.0
35°	3318.0	3340.8	3348.2	3369.1	3350.7
37.5°	3208.8	3228.2	3241.5	3256.9	3242.5
40°	3093.2	3110.6	3120.5	3139.3	3120.5
42.5°	2964.2	2989.0	3002.9	3016.3	2985.5
45°	2830.7	2859.0	2865.0	2860.5	2496.3
47.5°	2689.3	2720.1	2723.6	2375.2	2308.3
50°	2533.5	2572.2	2571.7	2195.1	2177.3
52.5°	2371.3	2408.5	2407.0	2054.2	2042.3
55°	2196.6	2236.8	1964.4	1907.3	1908.3
57.5°	2018.5	2047.2	1762.5	1764.9	1732.2
60°	1825.0	1852.2	1591.8	1576.4	1519.8
62.5°	1631.0	1642.4	1426.5	1351.6	1243.9
65°	1426.5	1438.4	1248.9	1027.1	889.6
67.5°	1216.7	1228.6	1036.5	764.1	753.7
70°	1005.2	908.0	786.5	636.6	641.6
72.5°	796.9	697.6	514.0	493.2	356.2
75°	600.9	526.4	399.4	268.4	261.0
77.5°	418.3	362.7	213.9	183.1	171.2
80°	259.5	182.1	128.0	113.6	109.1
82.5°	131.5	104.7	69.5	69.5	69.5
85°	53.6	38.2	39.2	42.7	43.1
87.5°	11.4	15.4	18.9	19.4	18.9
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)