

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: P731094

Luminaire Tested: **HBLED-LD5-48SE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731094
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-LD5-48SE-N-CLI-UNV-L840
Description: 48000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42120.0 lumens
Efficiency: N/A
Efficacy: 147.5 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

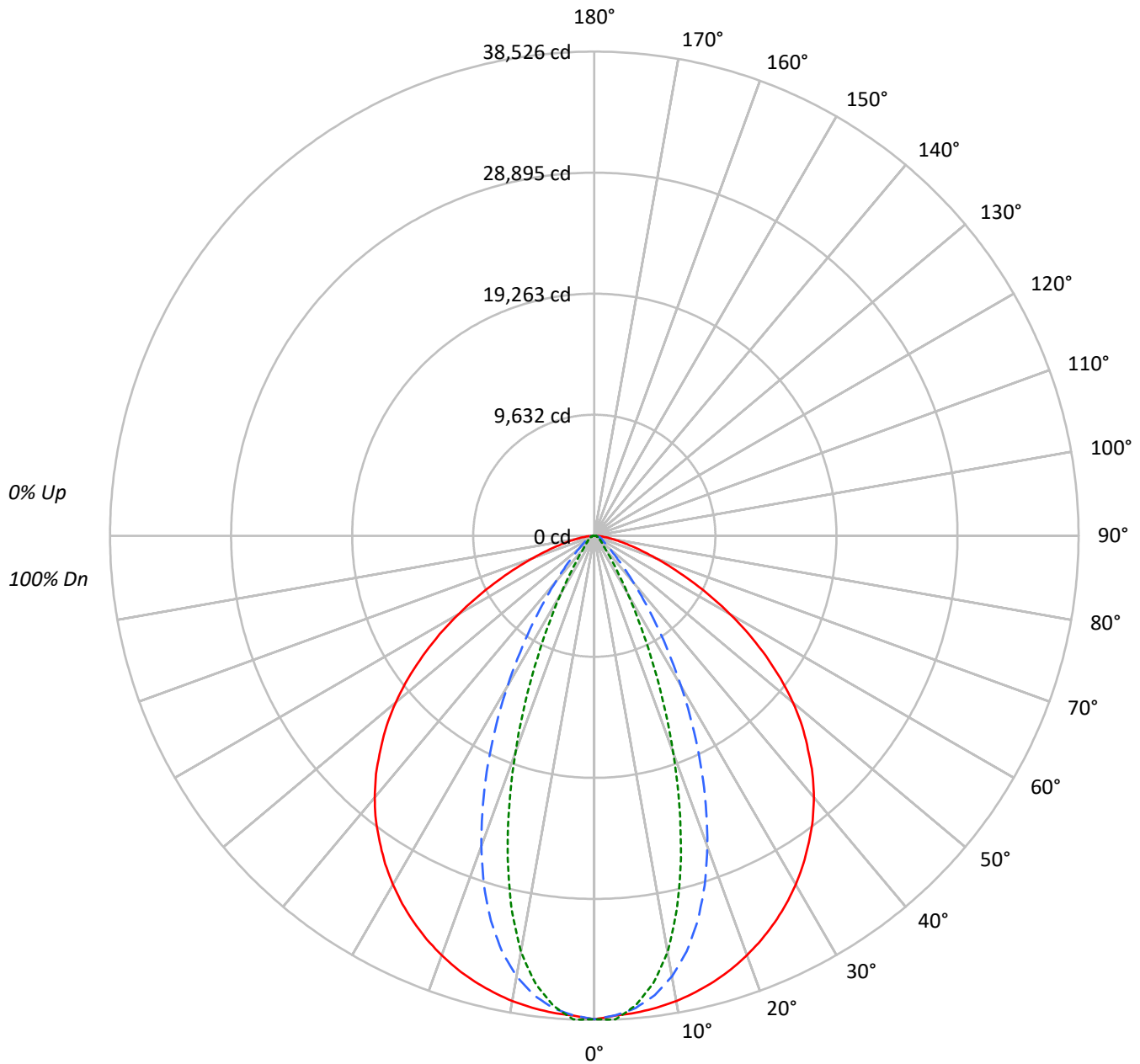
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	62119	62119	62119
5°	61745	61131	60809
10°	61642	58363	55074
15°	61394	53051	44478
20°	61026	45142	31524
25°	60479	35595	19047
30°	59745	25690	9789
35°	58666	16795	4889
40°	57275	10088	2853
45°	54895	6025	2133
50°	51776	3940	1791
55°	46860	2989	1563
60°	40270	2546	1426
65°	32392	2322	1347
70°	24403	2487	1339
75°	17950	2364	1377
80°	13133	2354	1508
85°	9837	2855	1951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3543.2	8.4
10°-20°	8814.7	20.9
20°-30°	9763.6	23.2
30°-40°	7822.4	18.6
40°-50°	5584.2	13.3
50°-60°	3586.8	8.5
60°-70°	1943.8	4.6
70°-80°	830.8	2.0
80°-90°	230.4	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°	22121.6	52.5
0°-40°	29944.0	71.1
0°-60°	39115.0	92.9
0°-90°	42120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38474	38474	38474	38474	38474	
5°	38097	38239	37718	37598	37519	###
15°	36729	35580	31738	28048	26609	10363
25°	33949	29934	19981	13018	10691	15640
35°	29764	21529	8521	3437	2480	18610
45°	24041	12428	2638	1123	934	18531
55°	16647	5556	1062	652	555	14836
65°	8479	2282	608	420	353	8490
75°	2877	835	379	264	221	3197
85°	531	221	154	128	105	648
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	38473.5	38473.5	38473.5	38473.5	38473.5
2.5°	38220.3	38459.4	38201.9	38362.0	38526.1
5°	38096.6	38238.6	37717.6	37598.1	37519.2
7.5°	37881.8	37841.3	36862.7	36228.3	35922.2
10°	37598.1	37269.8	35598.0	34203.9	33592.0
12.5°	37192.8	36516.1	33885.7	31437.8	30400.4
15°	36728.8	35579.9	31737.7	28047.7	26608.9
17.5°	36173.5	34485.5	29170.2	24412.3	22513.5
20°	35517.0	33164.4	26272.6	20549.9	18347.1
22.5°	34783.5	31640.5	23170.0	16699.6	14337.0
25°	33948.6	29934.2	19980.6	13017.8	10691.4
27.5°	33046.9	28039.6	16809.2	9726.8	7605.0
30°	32045.7	25988.8	13779.6	7013.5	5250.5
32.5°	30953.5	23808.4	10965.1	4932.3	3590.9
35°	29764.1	21528.7	8521.0	3436.7	2480.3
37.5°	28546.1	19202.3	6435.9	2429.6	1779.2
40°	27174.2	16884.0	4786.5	1779.2	1353.6
42.5°	25701.1	14610.5	3542.3	1369.8	1096.3
45°	24041.4	12428.0	2638.5	1122.7	934.3
47.5°	22432.5	10393.6	2004.1	956.4	812.6
50°	20612.8	8557.6	1568.4	834.9	713.2
52.5°	18681.6	6942.6	1272.6	735.6	628.2
55°	16647.0	5556.4	1061.7	652.5	555.3
57.5°	14586.2	4401.3	907.8	581.5	494.5
60°	12470.6	3519.9	788.3	520.7	441.7
62.5°	10405.7	2814.7	688.9	468.1	395.2
65°	8478.6	2281.6	607.9	419.5	352.6
67.5°	6697.2	1803.5	567.4	376.9	318.2
70°	5169.3	1404.3	526.9	336.4	283.7
72.5°	3917.0	1078.2	466.2	299.9	251.3
75°	2877.4	834.9	379.0	263.5	220.8
77.5°	2058.9	642.5	308.0	228.9	190.6
80°	1412.4	478.3	253.2	196.5	162.2
82.5°	918.1	338.5	204.6	162.2	133.6
85°	531.0	220.8	154.1	127.7	105.3
87.5°	228.9	121.5	105.3	95.3	81.0
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)