

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: P731113

Luminaire Tested: **HBLED-LD5-48SE-W-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-CLI-UNV-L850
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44778.0 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

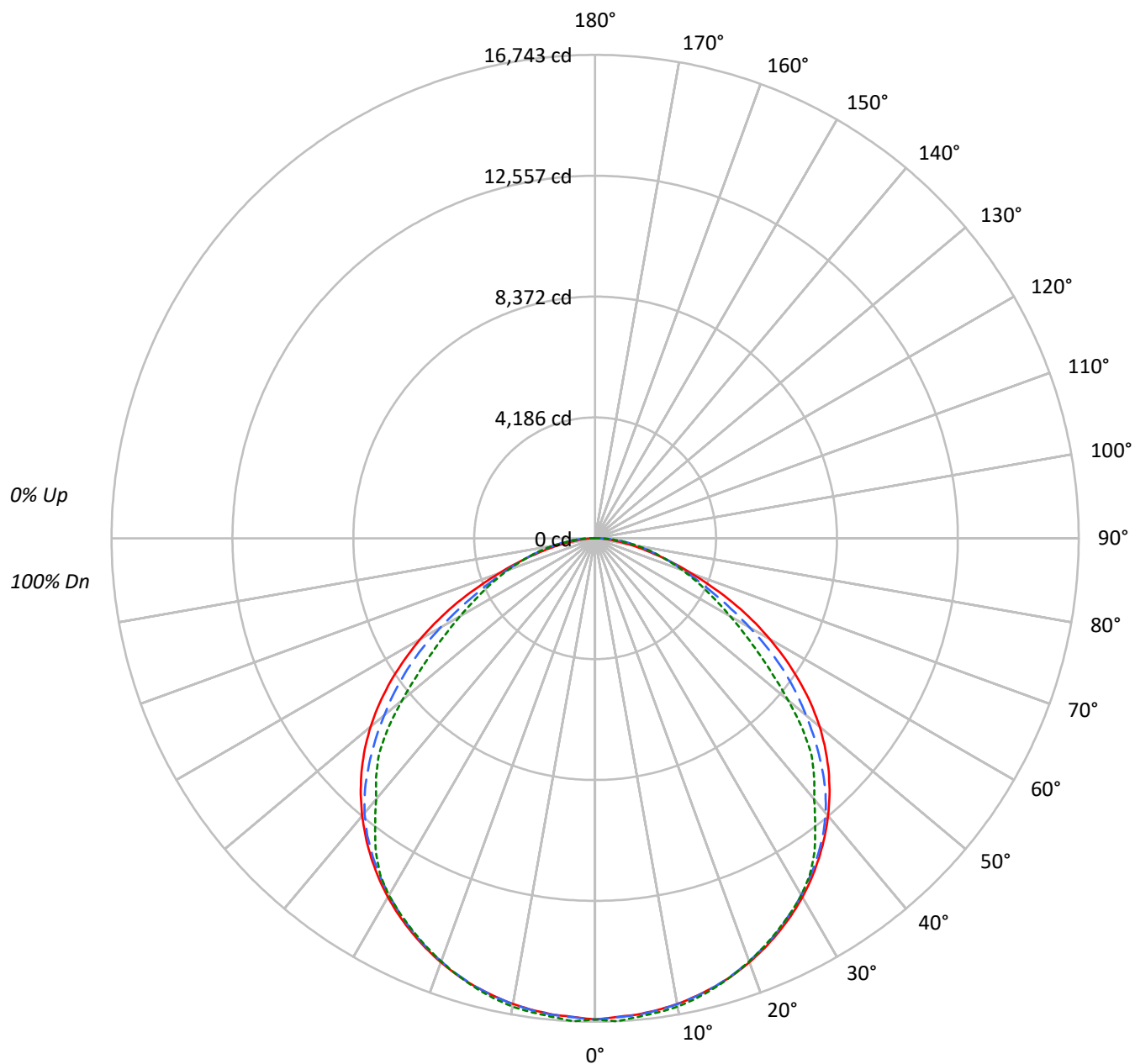
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731113

CATALOG NUMBER: HBLED-LD5-48SE-W-CLI-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P731113

CATALOG NUMBER: HBLED-LD5-48SE-W-CLI-UNV-L850

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26910	26910	26910
5°	26837	26857	26977
10°	26852	26866	27007
15°	26856	26853	26916
20°	26849	26787	26794
25°	26808	26708	26676
30°	26764	26604	26619
35°	26639	26474	26099
40°	26450	26180	24860
45°	26114	25278	24172
50°	25486	23932	21892
55°	24325	22382	19358
60°	22575	19971	17457
65°	20065	17291	16053
70°	16652	15452	15131
75°	13468	14142	14317
80°	10697	13526	13469
85°	8375	14529	13861



TEST NUMBER: P731113

CATALOG NUMBER: HBLED-LD5-48SE-W-CLI-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1580.6	3.5
10°-20°	4546.4	10.2
20°-30°	6932.4	15.5
30°-40°	8387.2	18.7
40°-50°	8495.5	19.0
50°-60°	7021.7	15.7
60°-70°	4637.7	10.4
70°-80°	2418.3	5.4
80°-90°	758.1	1.7
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°	13059.4	29.2
0°-40°	21446.6	47.9
0°-60°	36963.9	82.5
0°-90°	44778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16666	16666	16666	16666	16666	
5°	16558	16659	16571	16643	16645	###
15°	16066	16148	16064	16114	16102	4537
25°	15048	15108	14992	15030	14974	6939
35°	13515	13533	13431	13413	13241	8454
45°	11436	11407	11070	10726	10586	8806
55°	8641	8513	7951	7179	6877	7702
65°	5252	5100	4526	4232	4202	5187
75°	2159	2197	2267	2297	2295	2352
85°	452	582	784	778	748	549
90°	0	0	0	0	0	



TEST NUMBER: P731113

CATALOG NUMBER: HBLED-LD5-48SE-W-CLI-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16666.5	16666.5	16666.5	16666.5	16666.5
2.5°	16596.7	16694.6	16612.5	16684.6	16742.6
5°	16558.5	16658.7	16570.6	16642.6	16644.6
7.5°	16484.6	16584.6	16494.5	16566.6	16564.5
10°	16378.4	16472.6	16386.5	16472.6	16472.6
12.5°	16234.5	16326.5	16242.5	16322.4	16310.4
15°	16066.5	16148.4	16064.5	16114.5	16102.4
17.5°	15868.3	15942.4	15848.3	15890.2	15866.3
20°	15626.2	15694.3	15590.3	15644.3	15594.1
22.5°	15354.0	15418.0	15312.0	15352.2	15296.0
25°	15048.1	15108.1	14992.0	15030.0	14974.0
27.5°	14717.8	14771.8	14641.7	14687.9	14643.7
30°	14355.7	14381.8	14269.7	14329.8	14277.8
32.5°	13951.5	13967.6	13869.4	13923.4	13835.5
35°	13515.3	13533.4	13431.4	13413.3	13241.3
37.5°	13049.2	13057.2	12961.2	12799.0	12515.0
40°	12549.1	12545.1	12421.0	12046.8	11794.7
42.5°	12014.7	12012.9	11794.7	11368.5	11224.5
45°	11436.5	11406.6	11070.3	10726.2	10586.1
47.5°	10816.4	10784.3	10314.1	10040.1	9721.9
50°	10146.1	10090.1	9527.7	9153.5	8715.5
52.5°	9423.8	9337.6	8765.5	8161.2	7747.1
55°	8641.4	8513.3	7951.2	7178.9	6876.8
57.5°	7827.2	7637.1	7090.8	6338.6	6092.5
60°	6990.8	6778.6	6184.4	5566.3	5406.1
62.5°	6130.4	5920.4	5314.1	4848.0	4759.9
65°	5252.1	5099.9	4525.8	4231.7	4201.8
67.5°	4351.7	4297.7	3859.5	3709.5	3697.5
70°	3527.4	3517.4	3273.3	3197.2	3205.2
72.5°	2819.2	2807.1	2771.2	2733.1	2735.1
75°	2158.9	2196.8	2266.9	2296.8	2295.0
77.5°	1610.6	1688.7	1836.7	1896.7	1886.7
80°	1150.5	1266.6	1454.7	1510.7	1448.6
82.5°	766.3	888.3	1110.4	1118.4	1068.4
85°	452.1	582.2	784.3	778.3	748.2
87.5°	224.0	350.1	470.2	450.1	430.2
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)