

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: P731111

Luminaire Tested: **HBLED-LD5-48SE-W-CLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731111
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-L835
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: 42686.0 lumens
Efficiency: N/A
Efficacy: 149.5 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

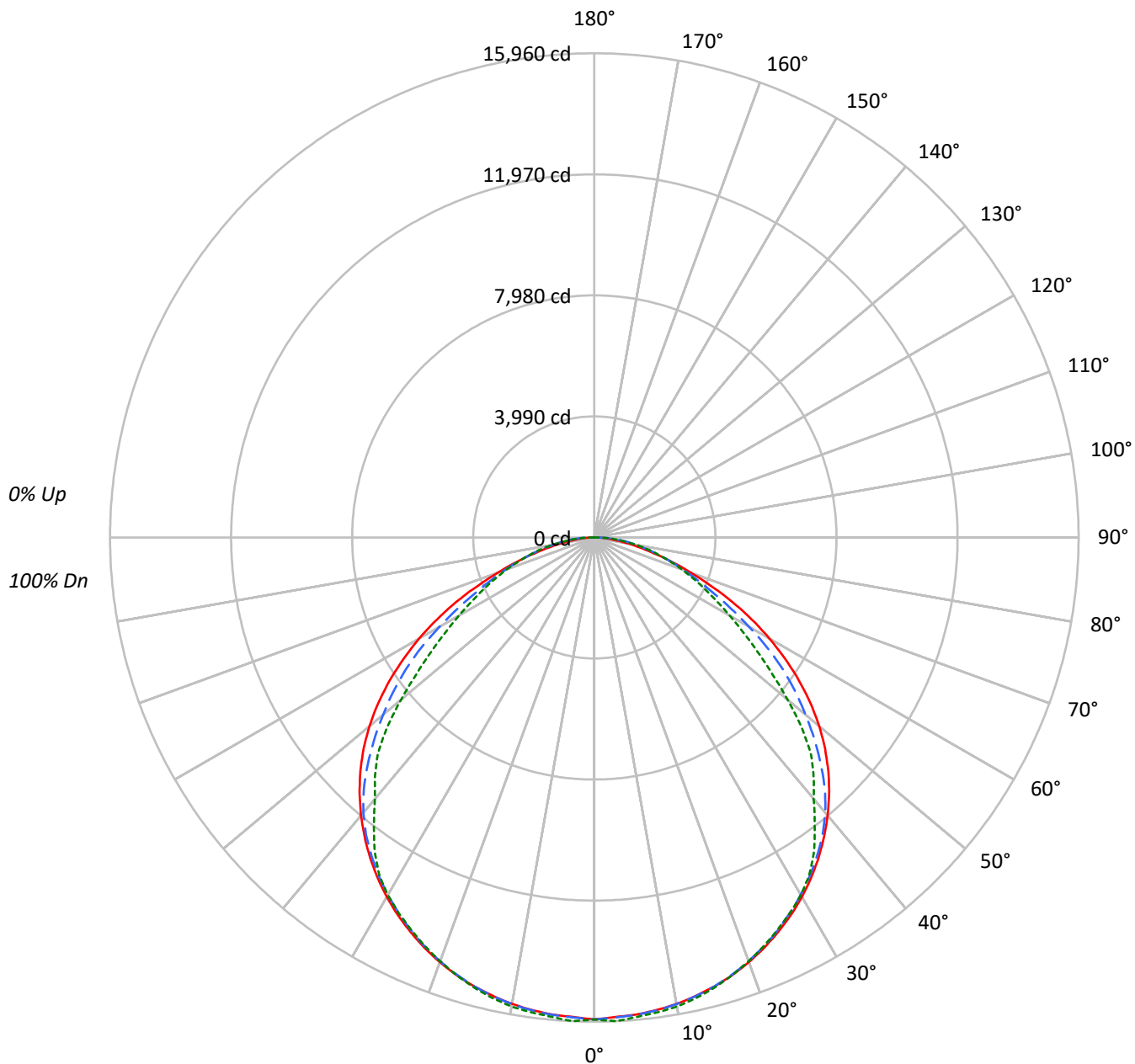
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731111

CATALOG NUMBER: HBLED-LD5-48SE-W-CLI-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P731111

CATALOG NUMBER: HBLED-LD5-48SE-W-CLI-UNV-L835

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°	25652	25652	25652
5°	25583	25602	25717
10°	25598	25610	25745
15°	25601	25598	25658
20°	25595	25536	25542
25°	25556	25460	25430
30°	25514	25361	25375
35°	25395	25237	24880
40°	25214	24957	23698
45°	24894	24097	23043
50°	24295	22814	20869
55°	23189	21337	18453
60°	21520	19038	16642
65°	19128	16483	15303
70°	15874	14731	14424
75°	12838	13481	13648
80°	10198	12894	12841
85°	7984	13851	13214



TEST NUMBER: P731111

CATALOG NUMBER: HBLED-LD5-48SE-W-CLI-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1506.7	3.5
10°-20°	4334.0	10.2
20°-30°	6608.6	15.5
30°-40°	7995.4	18.7
40°-50°	8098.6	19.0
50°-60°	6693.7	15.7
60°-70°	4421.1	10.4
70°-80°	2305.3	5.4
80°-90°	722.7	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°	12449.3	29.2
0°-40°	20444.6	47.9
0°-60°	35236.9	82.5
0°-90°	42686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15888	15888	15888	15888	15888	
5°	15785	15880	15796	15865	15867	###
15°	15316	15394	15314	15362	15350	4325
25°	14345	14402	14292	14328	14274	6614
35°	12884	12901	12804	12787	12623	8059
45°	10902	10874	10553	10225	10092	8395
55°	8238	8116	7580	6844	6556	7342
65°	5007	4862	4314	4034	4006	4945
75°	2058	2094	2161	2190	2188	2242
85°	431	555	748	742	713	523
90°	0	0	0	0	0	



TEST NUMBER: P731111

CATALOG NUMBER: HBLED-LD5-48SE-W-CLI-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15887.9	15887.9	15887.9	15887.9	15887.9
2.5°	15821.3	15914.7	15836.4	15905.1	15960.4
5°	15784.9	15880.4	15796.4	15865.1	15867.0
7.5°	15714.5	15809.8	15723.9	15792.6	15790.7
10°	15613.3	15703.0	15620.9	15703.0	15703.0
12.5°	15476.0	15563.7	15483.7	15559.9	15548.4
15°	15315.9	15393.9	15313.9	15361.6	15350.1
17.5°	15127.0	15197.6	15107.8	15147.8	15125.1
20°	14896.2	14961.1	14861.9	14913.4	14865.6
22.5°	14636.7	14697.7	14596.7	14635.0	14581.4
25°	14345.0	14402.2	14291.6	14327.8	14274.4
27.5°	14030.2	14081.7	13957.7	14001.7	13959.6
30°	13685.0	13709.9	13603.1	13660.3	13610.7
32.5°	13299.7	13315.0	13221.5	13272.9	13189.1
35°	12883.9	12901.1	12803.9	12786.7	12622.7
37.5°	12439.5	12447.2	12355.7	12201.1	11930.3
40°	11962.8	11959.0	11840.7	11484.0	11243.6
42.5°	11453.4	11451.6	11243.6	10837.3	10700.1
45°	10902.2	10873.7	10553.1	10225.1	10091.5
47.5°	10311.0	10280.4	9832.2	9571.0	9267.7
50°	9672.0	9618.7	9082.6	8725.9	8308.3
52.5°	8983.5	8901.4	8356.0	7779.9	7385.1
55°	8237.7	8115.6	7579.8	6843.5	6555.5
57.5°	7461.5	7280.3	6759.5	6042.4	5807.8
60°	6664.2	6461.9	5895.5	5306.2	5153.5
62.5°	5844.0	5643.8	5065.9	4621.5	4537.5
65°	5006.7	4861.7	4314.3	4034.0	4005.5
67.5°	4148.4	4096.9	3679.2	3536.2	3524.7
70°	3362.6	3353.1	3120.4	3047.8	3055.5
72.5°	2687.5	2676.0	2641.7	2605.4	2607.3
75°	2058.0	2094.2	2161.0	2189.5	2187.8
77.5°	1535.4	1609.8	1750.9	1808.1	1798.5
80°	1096.8	1207.4	1386.7	1440.1	1381.0
82.5°	730.5	846.8	1058.5	1066.1	1018.5
85°	431.0	555.0	747.7	742.0	713.3
87.5°	213.6	333.8	448.2	429.1	410.1
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)