

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: P731110

Luminaire Tested: **HBLED-LD5-48SE-W-CLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731110
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-L750
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: 47115.0 lumens
Efficiency: N/A
Efficacy: 165.0 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

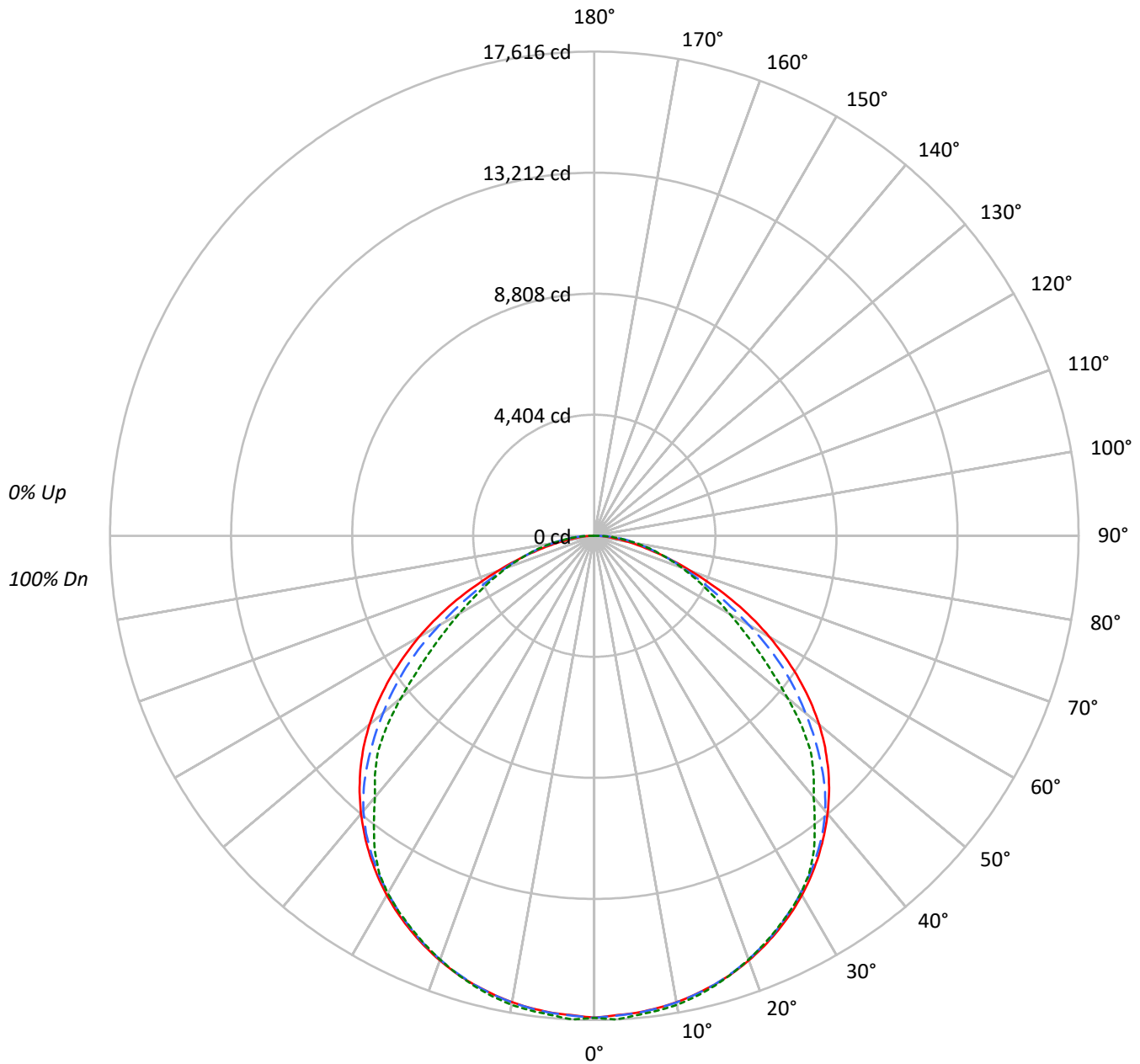
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28314	28314	28314
5°	28238	28259	28385
10°	28254	28268	28416
15°	28257	28254	28321
20°	28250	28185	28192
25°	28207	28102	28068
30°	28161	27993	28008
35°	28030	27856	27461
40°	27830	27546	26157
45°	27477	26597	25434
50°	26816	25181	23035
55°	25595	23550	20368
60°	23753	21013	18368
65°	21113	18193	16891
70°	17521	16259	15921
75°	14171	14880	15064
80°	11256	14232	14172
85°	8812	15289	14585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1663.1	3.5
10°-20°	4783.7	10.2
20°-30°	7294.2	15.5
30°-40°	8825.0	18.7
40°-50°	8938.9	19.0
50°-60°	7388.2	15.7
60°-70°	4879.8	10.4
70°-80°	2544.5	5.4
80°-90°	797.7	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°	13741.0	29.2
0°-40°	22565.9	47.9
0°-60°	38893.0	82.5
0°-90°	47115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17536	17536	17536	17536	17536	
5°	17423	17528	17435	17511	17513	###
15°	16905	16991	16903	16956	16943	4774
25°	15833	15897	15774	15814	15756	7301
35°	14221	14240	14132	14113	13932	8895
45°	12033	12002	11648	11286	11139	9266
55°	9092	8958	8366	7554	7236	8104
65°	5526	5366	4762	4452	4421	5458
75°	2272	2312	2385	2417	2415	2475
85°	476	613	825	819	787	578
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17536.4	17536.4	17536.4	17536.4	17536.4
2.5°	17462.9	17565.9	17479.5	17555.4	17616.4
5°	17422.7	17528.1	17435.4	17511.2	17513.3
7.5°	17345.0	17450.2	17355.3	17431.2	17429.1
10°	17233.3	17332.3	17241.7	17332.3	17332.3
12.5°	17081.8	17178.5	17090.2	17174.3	17161.6
15°	16905.0	16991.2	16902.9	16955.5	16942.8
17.5°	16696.5	16774.5	16675.4	16719.5	16694.4
20°	16441.8	16513.4	16404.0	16460.8	16408.0
22.5°	16155.3	16222.7	16111.2	16153.4	16094.3
25°	15833.4	15896.6	15774.5	15814.4	15755.5
27.5°	15486.0	15542.8	15405.9	15454.5	15408.0
30°	15104.9	15132.4	15014.5	15077.6	15022.9
32.5°	14679.7	14696.6	14593.3	14650.1	14557.6
35°	14220.7	14239.7	14132.4	14113.4	13932.4
37.5°	13730.2	13738.7	13637.7	13467.0	13168.1
40°	13204.0	13199.8	13069.3	12675.5	12410.2
42.5°	12641.7	12639.8	12410.2	11961.8	11810.3
45°	12033.4	12001.9	11648.1	11286.1	11138.6
47.5°	11380.9	11347.1	10852.4	10564.1	10229.3
50°	10675.6	10616.7	10025.0	9631.3	9170.4
52.5°	9915.6	9825.0	9223.0	8587.2	8151.4
55°	9092.4	8957.7	8366.2	7553.6	7235.7
57.5°	8235.7	8035.6	7460.9	6669.4	6410.4
60°	7355.7	7132.4	6507.2	5856.8	5688.2
62.5°	6450.4	6229.4	5591.5	5101.0	5008.3
65°	5526.2	5366.1	4762.0	4452.5	4421.1
67.5°	4578.8	4522.0	4060.9	3903.1	3890.4
70°	3711.5	3701.0	3444.1	3364.1	3372.5
72.5°	2966.3	2953.6	2915.8	2875.7	2877.8
75°	2271.6	2311.5	2385.2	2416.7	2414.8
77.5°	1694.7	1776.9	1932.5	1995.7	1985.1
80°	1210.6	1332.7	1530.6	1589.5	1524.2
82.5°	806.3	934.7	1168.3	1176.8	1124.2
85°	475.7	612.6	825.3	818.9	787.3
87.5°	235.7	368.4	494.7	473.6	452.7
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)