

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: P731096

Luminaire Tested: **HBLED-LD5-48SE-N-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-N-UNV-L735
Description: 48000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46289.0 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

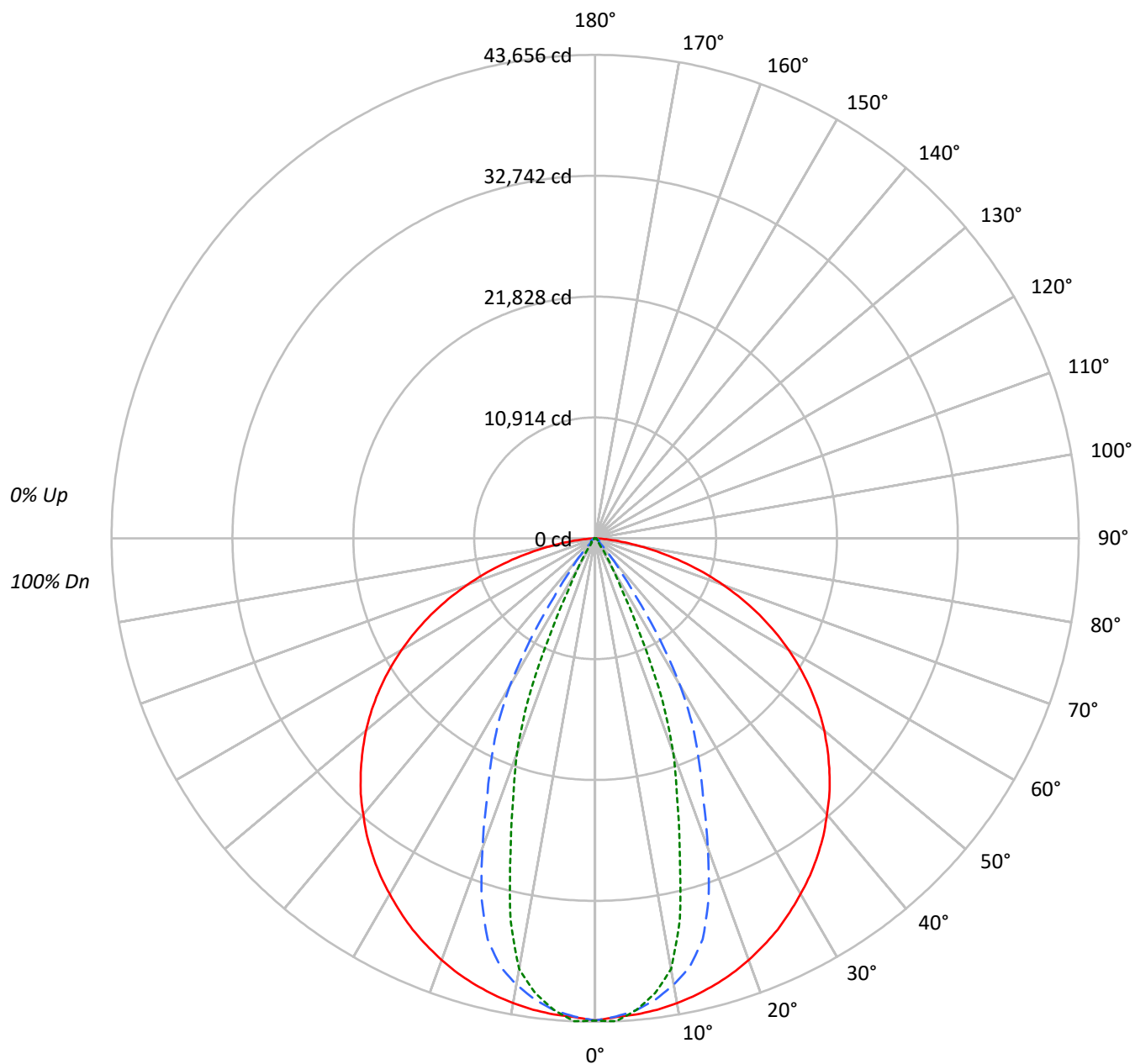
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731096

CATALOG NUMBER: HBLED-LD5-48SE-N-UNV-L735

Luminous Intensity Polar Plot





TEST NUMBER: P731096

CATALOG NUMBER: HBLED-LD5-48SE-N-UNV-L735

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	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	70317	70317	70317
5°	69940	69323	69292
10°	69897	67101	64747
15°	69798	62688	49276
20°	69636	51103	35469
25°	69458	39514	17472
30°	69151	28718	5667
35°	68988	12741	1458
40°	68627	5174	982
45°	68320	1452	1045
50°	67788	1030	1160
55°	66811	1225	496
60°	65162	1365	301
65°	62481	870	356
70°	58046	773	440
75°	50779	582	607
80°	37968	713	868
85°	18807	919	1150



TEST NUMBER: P731096

CATALOG NUMBER: HBLED-LD5-48SE-N-UNV-L735

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4041.6	8.7
10°-20°	10106.0	21.8
20°-30°	10946.3	23.6
30°-40°	8106.2	17.5
40°-50°	5838.6	12.6
50°-60°	3615.2	7.8
60°-70°	2223.3	4.8
70°-80°	1172.0	2.5
80°-90°	239.9	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°	25093.8	54.2
0°-40°	33200.0	71.7
0°-60°	42653.8	92.1
0°-90°	46289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	43551	43551	43551	43551	43551	
5°	43153	43312	42772	42803	42753	###
15°	41757	40787	37503	31893	29479	11788
25°	38989	35713	22180	13953	9808	17965
35°	35001	24675	6464	1521	740	21897
45°	29920	13902	636	460	458	23075
55°	23734	2863	435	394	176	21188
65°	16354	302	228	145	93	16136
75°	8140	70	93	122	97	8598
85°	1015	27	50	75	62	###
90°	0	0	0	0	0	



TEST NUMBER: P731096

CATALOG NUMBER: HBLED-LD5-48SE-N-UNV-L735

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	43550.8	43550.8	43550.8	43550.8	43550.8
2.5°	43271.1	43546.8	43221.5	43463.9	43656.5
5°	43153.0	43312.5	42771.8	42802.8	42753.2
7.5°	42945.8	42908.5	41999.1	41601.3	41427.3
10°	42633.1	42386.4	40928.0	40097.2	39492.2
12.5°	42229.1	41678.0	39591.7	36950.2	35309.4
15°	41756.6	40787.1	37503.3	31893.0	29479.3
17.5°	41193.1	39819.5	34089.0	26730.0	24575.5
20°	40528.0	38740.1	29742.3	22741.9	20643.3
22.5°	39786.3	37426.6	25520.2	18900.8	15907.1
25°	38988.7	35713.3	22180.4	13953.4	9807.7
27.5°	38066.8	33511.0	19047.9	8218.8	5005.5
30°	37091.1	30859.0	15403.6	4421.1	3039.4
32.5°	36106.9	27852.9	10899.6	2761.7	1723.7
35°	35000.7	24674.8	6463.9	1520.7	739.7
37.5°	33846.5	21762.0	3820.3	692.1	474.5
40°	32560.1	19099.8	2455.0	459.8	466.1
42.5°	31317.1	16617.8	1381.9	453.6	462.0
45°	29920.5	13901.5	636.0	459.8	457.8
47.5°	28476.5	11086.0	412.2	464.1	464.1
50°	26987.1	7926.7	410.2	474.5	462.0
52.5°	25414.5	4945.4	426.8	472.5	379.2
55°	23734.3	2863.2	435.0	393.6	176.2
57.5°	21994.0	1688.4	439.2	225.8	99.5
60°	20179.0	934.3	422.6	167.8	93.3
62.5°	18308.2	445.4	333.5	157.6	91.1
65°	16354.5	302.5	227.8	144.9	93.3
67.5°	14326.3	234.0	180.2	136.7	95.3
70°	12296.0	174.0	163.8	136.7	93.3
72.5°	10232.6	118.1	136.7	138.7	93.3
75°	8139.9	70.5	93.3	122.3	97.3
77.5°	6066.1	43.4	72.5	126.3	118.1
80°	4083.4	37.2	76.7	118.1	93.3
82.5°	2397.1	33.2	74.7	91.1	74.7
85°	1015.2	27.0	49.6	74.7	62.1
87.5°	190.6	22.8	39.4	60.1	53.9
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)