

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: P731092

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731092
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-L750
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: 45188.0 lumens
Efficiency: N/A
Efficacy: 158.3 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

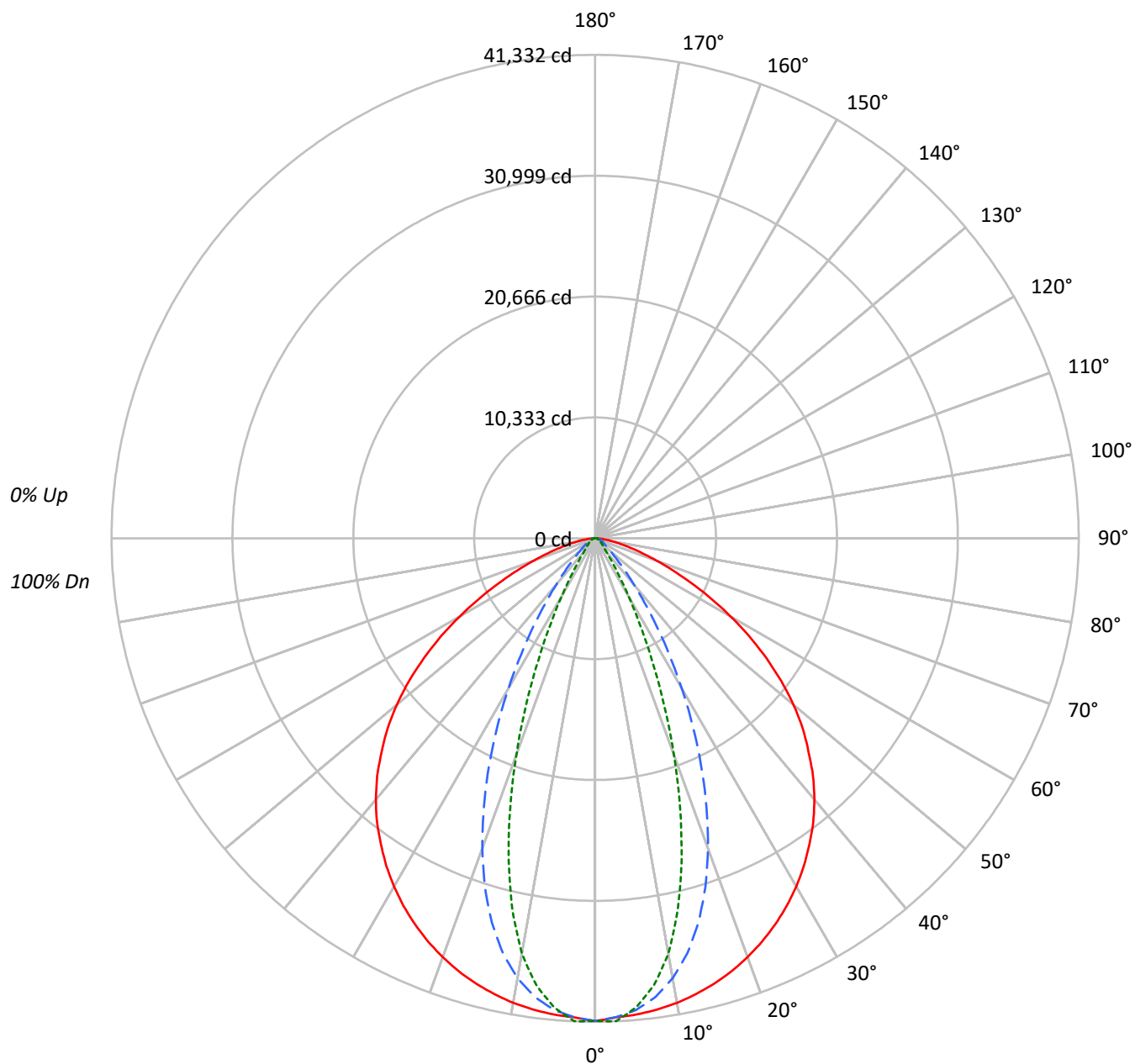
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731092

CATALOG NUMBER: HBLED-LD5-48SE-N-CLI-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P731092

CATALOG NUMBER: HBLED-LD5-48SE-N-CLI-UNV-L750

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	66644	66644	66644
5°	66243	65584	65239
10°	66132	62614	59085
15°	65866	56915	47718
20°	65471	48430	33820
25°	64885	38188	20434
30°	64097	27561	10502
35°	62940	18019	5245
40°	61447	10823	3061
45°	58894	6464	2289
50°	55548	4227	1922
55°	50274	3207	1677
60°	43203	2731	1530
65°	34751	2492	1445
70°	26180	2669	1437
75°	19258	2536	1478
80°	14089	2526	1618
85°	10554	3062	2093



TEST NUMBER: P731092

CATALOG NUMBER: HBLED-LD5-48SE-N-CLI-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3801.3	8.4
10°-20°	9456.8	20.9
20°-30°	10474.8	23.2
30°-40°	8392.2	18.6
40°-50°	5990.9	13.3
50°-60°	3848.1	8.5
60°-70°	2085.4	4.6
70°-80°	891.4	2.0
80°-90°	247.2	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°	23732.9	52.5
0°-40°	32125.1	71.1
0°-60°	41964.1	92.9
0°-90°	45188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	41276	41276	41276	41276	41276	
5°	40872	41024	40465	40337	40252	###
15°	39404	38172	34050	30091	28547	11118
25°	36421	32115	21436	13966	11470	16779
35°	31932	23097	9142	3687	2661	19965
45°	25793	13333	2831	1204	1002	19881
55°	17860	5961	1139	700	596	15916
65°	9096	2448	652	450	378	9109
75°	3087	896	407	283	237	3430
85°	570	237	165	137	113	696
90°	0	0	0	0	0	



TEST NUMBER: P731092

CATALOG NUMBER: HBLED-LD5-48SE-N-CLI-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	41275.9	41275.9	41275.9	41275.9	41275.9
2.5°	41004.2	41260.8	40984.5	41156.3	41332.4
5°	40871.6	41023.9	40465.0	40336.7	40252.1
7.5°	40641.1	40597.6	39547.7	38867.2	38538.8
10°	40336.7	39984.5	38190.9	36695.3	36038.8
12.5°	39902.0	39175.9	36353.9	33727.7	32614.7
15°	39404.1	38171.5	34049.5	30090.7	28547.1
17.5°	38808.4	36997.4	31295.0	26190.5	24153.4
20°	38104.0	35580.0	28186.2	22046.8	19683.5
22.5°	37317.1	33945.2	24857.7	17916.0	15381.3
25°	36421.4	32114.6	21435.9	13966.0	11470.1
27.5°	35454.0	30082.0	18033.6	10435.3	8159.0
30°	34379.9	27881.9	14783.3	7524.4	5632.9
32.5°	33208.1	25542.6	11763.7	5291.5	3852.4
35°	31932.1	23096.9	9141.6	3687.1	2661.0
37.5°	30625.4	20601.0	6904.7	2606.5	1908.8
40°	29153.6	18113.8	5135.1	1908.8	1452.1
42.5°	27573.1	15674.7	3800.3	1469.5	1176.1
45°	25792.6	13333.2	2830.7	1204.5	1002.3
47.5°	24066.5	11150.6	2150.1	1026.1	871.7
50°	22114.2	9181.0	1682.7	895.8	765.2
52.5°	20042.3	7448.2	1365.2	789.2	673.9
55°	17859.5	5961.1	1139.1	700.0	595.7
57.5°	15648.6	4721.9	974.0	623.9	530.5
60°	13378.9	3776.3	845.7	558.7	473.8
62.5°	11163.7	3019.8	739.1	502.2	424.0
65°	9096.1	2447.8	652.2	450.1	378.2
67.5°	7185.0	1934.9	608.8	404.3	341.4
70°	5545.8	1506.6	565.3	360.9	304.4
72.5°	4202.3	1156.7	500.1	321.8	269.6
75°	3087.0	895.8	406.6	282.7	236.9
77.5°	2208.9	689.3	330.4	245.6	204.4
80°	1515.3	513.2	271.7	210.8	174.0
82.5°	984.9	363.2	219.5	174.0	143.4
85°	569.7	236.9	165.3	137.0	113.0
87.5°	245.6	130.3	113.0	102.2	86.9
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)