

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: P731056

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731056
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-LD5-48HE-N-CLI-UNV-L750
Description: 48000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45717.0 lumens
Efficiency: N/A
Efficacy: 173.8 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

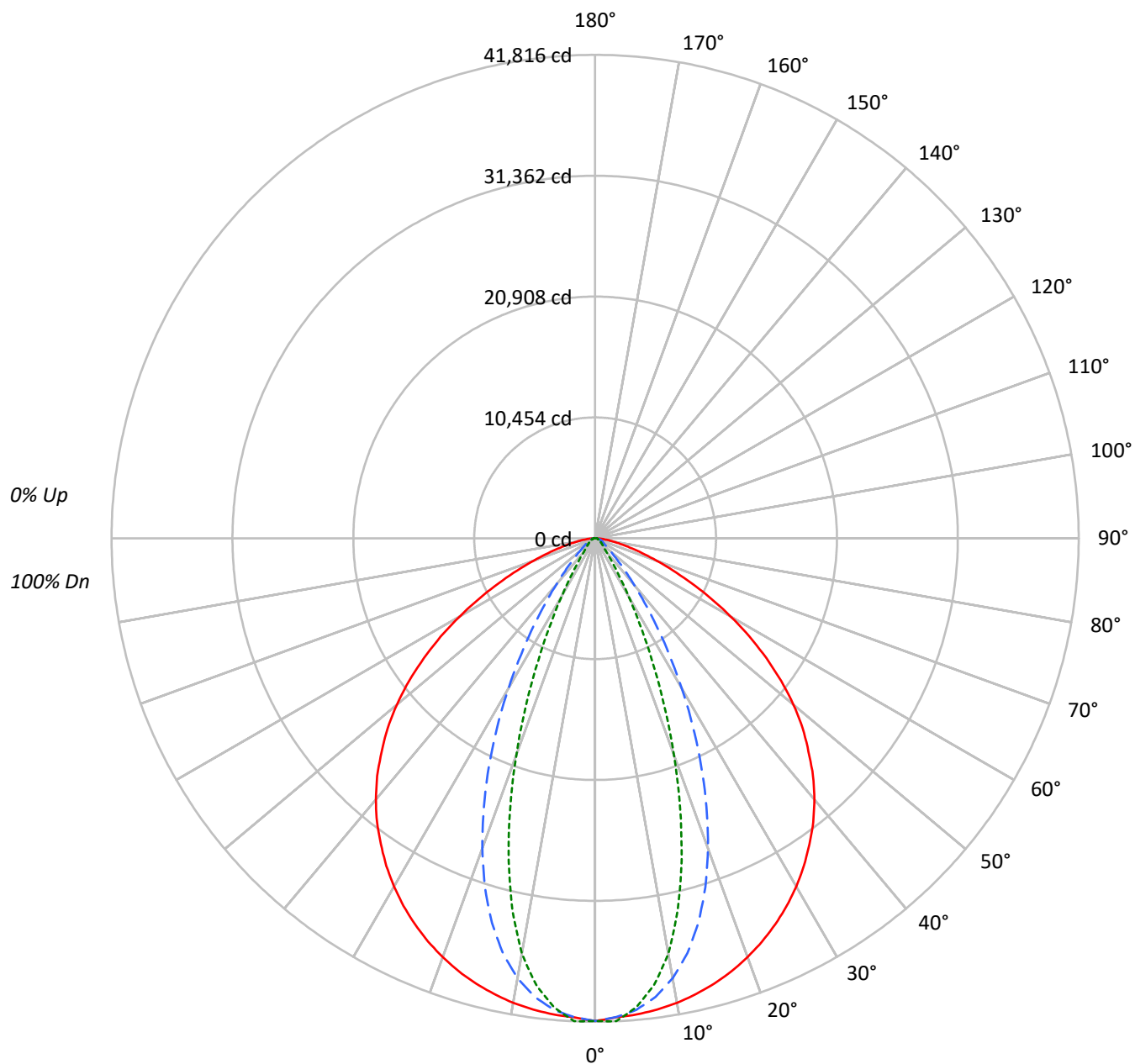
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	67424	67424	67424
5°	67018	66352	66002
10°	66906	63347	59777
15°	66637	57582	48276
20°	66237	48997	34216
25°	65644	38635	20673
30°	64847	27884	10625
35°	63676	18230	5306
40°	62166	10950	3096
45°	59583	6539	2316
50°	56198	4276	1944
55°	50862	3244	1697
60°	43709	2763	1548
65°	35158	2521	1462
70°	26487	2700	1454
75°	19483	2566	1495
80°	14254	2556	1637
85°	10676	3099	2117



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3845.8	8.4
10°-20°	9567.5	20.9
20°-30°	10597.5	23.2
30°-40°	8490.4	18.6
40°-50°	6061.1	13.3
50°-60°	3893.1	8.5
60°-70°	2109.8	4.6
70°-80°	901.8	2.0
80°-90°	250.1	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°	24010.7	52.5
0°-40°	32501.2	71.1
0°-60°	42455.3	92.9
0°-90°	45717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	41759	41759	41759	41759	41759	
5°	41350	41504	40939	40809	40723	###
15°	39865	38618	34448	30443	28881	11248
25°	36848	32490	21687	14130	11604	16975
35°	32306	23367	9249	3730	2692	20199
45°	26094	13489	2864	1219	1014	20113
55°	18069	6031	1152	708	603	16103
65°	9203	2476	660	455	383	9215
75°	3123	906	411	286	240	3470
85°	576	240	167	139	114	704
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	41759.1	41759.1	41759.1	41759.1	41759.1
2.5°	41484.2	41743.8	41464.3	41638.1	41816.2
5°	41350.0	41504.1	40938.7	40808.9	40723.3
7.5°	41116.8	41072.9	40010.7	39322.2	38989.9
10°	40808.9	40452.6	38638.0	37124.9	36460.7
12.5°	40369.1	39634.5	36779.5	34122.5	32996.5
15°	39865.4	38618.4	34448.1	30443.0	28881.3
17.5°	39262.7	37430.5	31661.3	26497.1	24436.1
20°	38550.1	35996.6	28516.2	22304.8	19914.0
22.5°	37754.0	34342.6	25148.7	18125.8	15561.4
25°	36847.8	32490.5	21686.9	14129.5	11604.4
27.5°	35869.1	30434.2	18244.7	10557.5	8254.5
30°	34782.4	28208.3	14956.3	7612.5	5698.9
32.5°	33596.9	25841.7	11901.5	5353.5	3897.5
35°	32305.9	23367.3	9248.7	3730.2	2692.1
37.5°	30983.9	20842.2	6985.5	2637.1	1931.2
40°	29494.9	18325.9	5195.2	1931.2	1469.1
42.5°	27895.9	15858.2	3844.8	1486.7	1189.9
45°	26094.5	13489.3	2863.8	1218.6	1014.1
47.5°	24348.2	11281.2	2175.3	1038.1	881.9
50°	22373.1	9288.5	1702.4	906.2	774.1
52.5°	20277.0	7535.4	1381.2	798.4	681.8
55°	18068.6	6030.9	1152.4	708.2	602.7
57.5°	15831.8	4777.1	985.4	631.2	536.8
60°	13535.6	3820.5	855.6	565.2	479.4
62.5°	11294.4	3055.1	747.8	508.1	428.9
65°	9202.6	2476.5	659.8	455.3	382.7
67.5°	7269.1	1957.5	615.9	409.0	345.4
70°	5610.7	1524.2	571.9	365.1	307.9
72.5°	4251.5	1170.2	506.0	325.5	272.8
75°	3123.1	906.2	411.4	286.0	239.7
77.5°	2234.7	697.3	334.3	248.5	206.8
80°	1533.0	519.2	274.9	213.3	176.1
82.5°	996.5	367.4	222.1	176.1	145.1
85°	576.3	239.7	167.3	138.6	114.3
87.5°	248.5	131.9	114.3	103.4	87.9
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)