

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: P731062

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731062
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-LD5-48HE-N-UNV-L750
Description: 48000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49412.0 lumens
Efficiency: N/A
Efficacy: 187.9 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

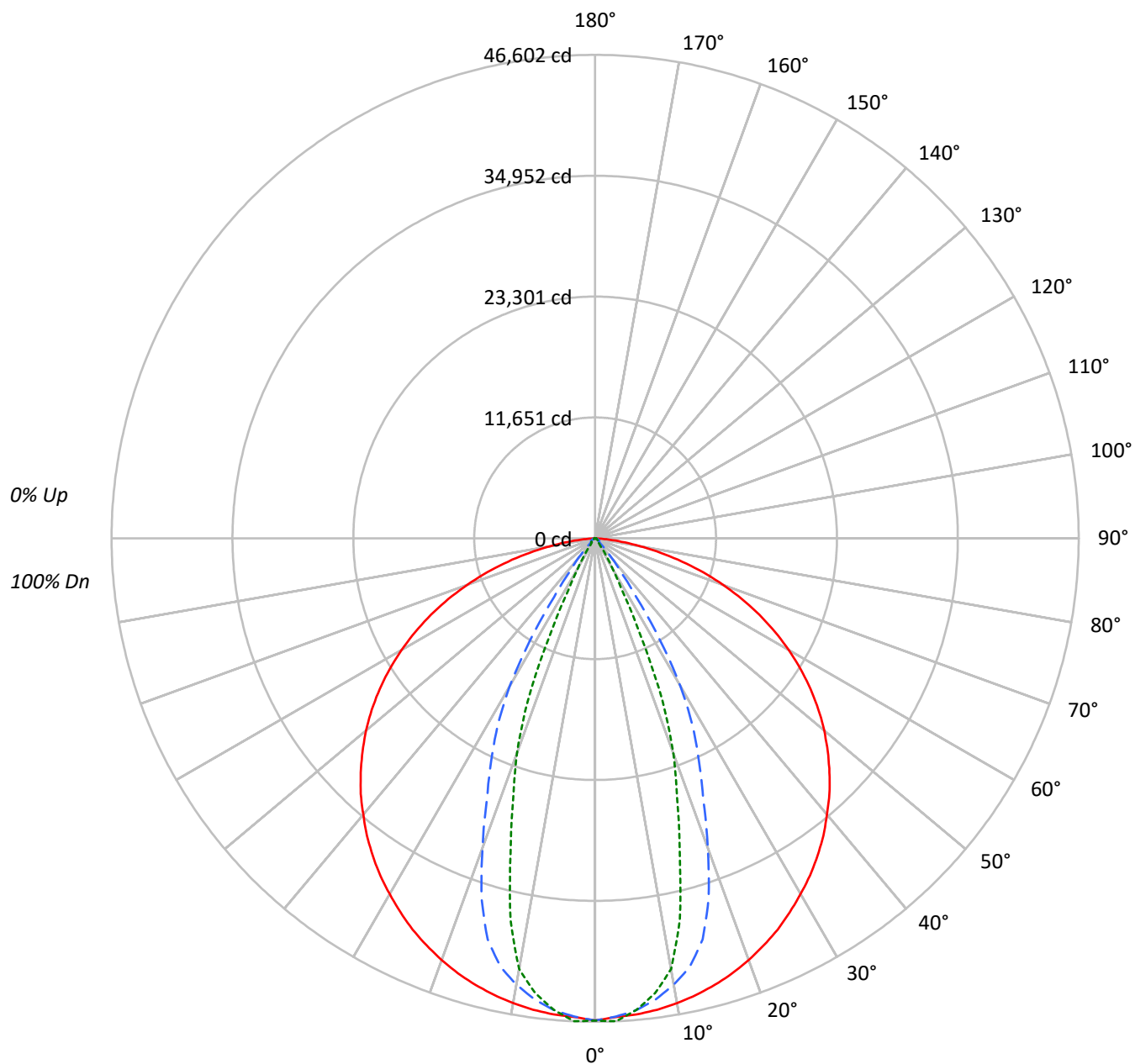
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	75061	75061	75061
5°	74659	74000	73967
10°	74612	71628	69116
15°	74507	66918	52600
20°	74334	54551	37862
25°	74145	42180	18651
30°	73817	30655	6049
35°	73642	13600	1556
40°	73257	5523	1049
45°	72929	1550	1116
50°	72361	1100	1239
55°	71318	1307	529
60°	69558	1457	322
65°	66697	929	381
70°	61962	825	470
75°	54205	621	648
80°	40529	761	926
85°	20076	982	1226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4314.2	8.7
10°-20°	10787.8	21.8
20°-30°	11684.8	23.6
30°-40°	8653.1	17.5
40°-50°	6232.5	12.6
50°-60°	3859.1	7.8
60°-70°	2373.3	4.8
70°-80°	1251.1	2.5
80°-90°	256.1	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°	26786.8	54.2
0°-40°	35440.0	71.7
0°-60°	45531.5	92.1
0°-90°	49412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	46489	46489	46489	46489	46489	
5°	46064	46235	45658	45691	45638	###
15°	44574	43539	40034	34045	31468	12583
25°	41619	38123	23677	14895	10469	19177
35°	37362	26340	6900	1623	790	23374
45°	31939	14839	679	491	489	24632
55°	25336	3056	464	420	188	22617
65°	17458	323	243	155	100	17225
75°	8689	75	100	131	104	9178
85°	1084	29	53	80	66	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	46489.0	46489.0	46489.0	46489.0	46489.0
2.5°	46190.5	46484.8	46137.5	46396.3	46601.9
5°	46064.4	46234.7	45657.5	45690.6	45637.6
7.5°	45843.2	45803.5	44832.6	44408.0	44222.3
10°	45509.4	45246.1	43689.3	42802.5	42156.7
12.5°	45078.2	44489.9	42262.9	39443.1	37691.6
15°	44573.8	43538.9	40033.5	34044.8	31468.2
17.5°	43972.3	42506.1	36388.9	28533.4	26233.6
20°	43262.4	41353.8	31749.0	24276.3	22036.0
22.5°	42470.6	39951.7	27242.0	20176.0	16980.3
25°	41619.2	38122.8	23676.8	14894.8	10469.4
27.5°	40635.1	35771.9	20333.0	8773.3	5343.2
30°	39593.5	32941.0	16442.8	4719.4	3244.4
32.5°	38543.0	29732.1	11635.0	2948.0	1840.0
35°	37362.1	26339.6	6900.0	1623.3	789.6
37.5°	36130.1	23230.2	4078.1	738.8	506.5
40°	34756.8	20388.4	2620.6	490.9	497.5
42.5°	33430.0	17738.9	1475.2	484.2	493.2
45°	31939.2	14839.4	678.9	490.9	488.7
47.5°	30397.7	11833.9	440.0	495.4	495.4
50°	28807.8	8461.5	437.9	506.5	493.2
52.5°	27129.2	5279.1	455.6	504.3	404.8
55°	25335.6	3056.4	464.4	420.1	188.1
57.5°	23477.9	1802.4	468.9	241.1	106.2
60°	21540.5	997.3	451.1	179.1	99.6
62.5°	19543.4	475.5	356.0	168.2	97.2
65°	17457.9	322.9	243.2	154.7	99.6
67.5°	15292.9	249.8	192.3	146.0	101.7
70°	13125.5	185.7	174.8	146.0	99.6
72.5°	10922.9	126.1	146.0	148.1	99.6
75°	8689.1	75.2	99.6	130.6	103.9
77.5°	6475.4	46.4	77.4	134.8	126.1
80°	4358.9	39.7	81.8	126.1	99.6
82.5°	2558.9	35.5	79.7	97.2	79.7
85°	1083.7	28.8	53.0	79.7	66.2
87.5°	203.4	24.4	42.1	64.1	57.5
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)