

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: P731074

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731074
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-LD5-48HE-W-CLI-UNV-L750
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47667.0 lumens
Efficiency: N/A
Efficacy: 181.2 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

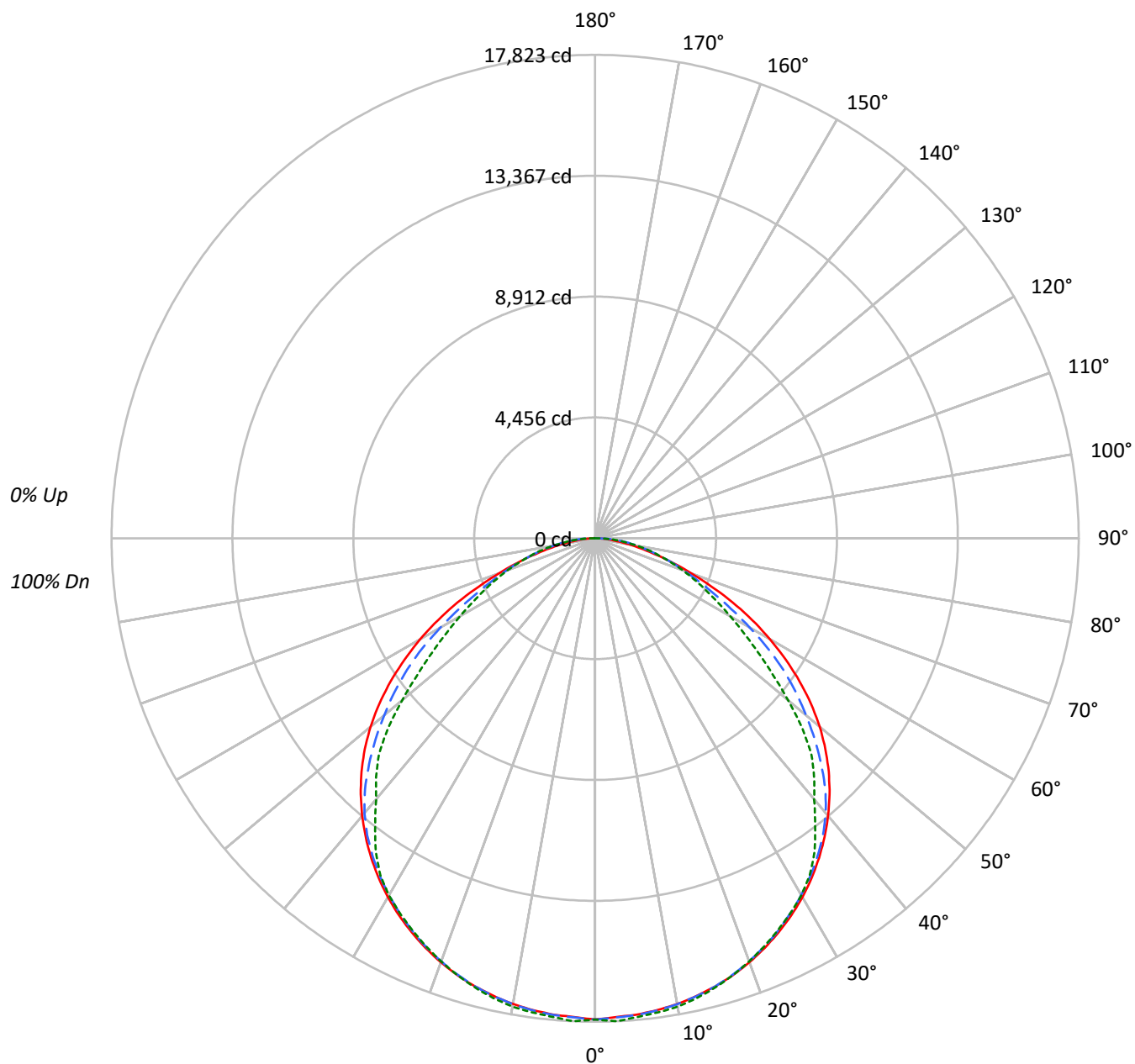
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28646	28646	28646
5°	28569	28590	28717
10°	28585	28599	28749
15°	28589	28585	28652
20°	28581	28516	28523
25°	28538	28431	28397
30°	28491	28320	28336
35°	28358	28182	27783
40°	28156	27869	26463
45°	27799	26909	25732
50°	27130	25476	23304
55°	25895	23826	20607
60°	24031	21259	18584
65°	21360	18406	17088
70°	17726	16449	16107
75°	14337	15054	15241
80°	11387	14398	14339
85°	8916	15467	14755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1682.6	3.5
10°-20°	4839.7	10.2
20°-30°	7379.7	15.5
30°-40°	8928.4	18.7
40°-50°	9043.6	19.0
50°-60°	7474.8	15.7
60°-70°	4936.9	10.4
70°-80°	2574.3	5.4
80°-90°	807.0	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°	13902.0	29.2
0°-40°	22830.3	47.9
0°-60°	39348.7	82.5
0°-90°	47667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17742	17742	17742	17742	17742	
5°	17627	17734	17640	17716	17718	###
15°	17103	17190	17101	17154	17141	4830
25°	16019	16083	15959	16000	15940	7386
35°	14387	14406	14298	14279	14096	8999
45°	12174	12142	11785	11418	11269	9374
55°	9199	9063	8464	7642	7320	8199
65°	5591	5429	4818	4505	4473	5522
75°	2298	2339	2413	2445	2443	2504
85°	481	620	835	828	796	584
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17741.8	17741.8	17741.8	17741.8	17741.8
2.5°	17667.5	17771.7	17684.3	17761.1	17822.8
5°	17626.9	17733.5	17639.7	17716.4	17718.5
7.5°	17548.2	17654.6	17558.7	17635.4	17633.3
10°	17435.2	17535.4	17443.7	17535.4	17535.4
12.5°	17281.9	17379.8	17290.5	17375.5	17362.7
15°	17103.1	17190.3	17100.9	17154.1	17141.3
17.5°	16892.1	16971.0	16870.8	16915.4	16890.0
20°	16634.4	16706.8	16596.1	16653.6	16600.2
22.5°	16344.6	16412.8	16300.0	16342.7	16282.9
25°	16018.9	16082.8	15959.3	15999.7	15940.1
27.5°	15667.4	15724.9	15586.4	15635.5	15588.5
30°	15281.9	15309.6	15190.4	15254.3	15198.9
32.5°	14851.7	14868.8	14764.3	14821.8	14728.2
35°	14387.3	14406.5	14298.0	14278.7	14095.6
37.5°	13891.1	13899.6	13797.5	13624.8	13322.4
40°	13358.7	13354.5	13222.4	12824.0	12555.6
42.5°	12789.8	12787.9	12555.6	12101.9	11948.7
45°	12174.4	12142.5	11784.6	11418.3	11269.1
47.5°	11514.2	11480.0	10979.5	10687.8	10349.1
50°	10800.7	10741.0	10142.5	9744.1	9277.8
52.5°	10031.8	9940.1	9331.0	8687.8	8246.9
55°	9199.0	9062.6	8464.2	7642.1	7320.5
57.5°	8332.2	8129.8	7548.3	6747.5	6485.5
60°	7441.9	7216.0	6583.4	5925.4	5754.9
62.5°	6525.9	6302.4	5657.0	5160.8	5067.0
65°	5591.0	5429.0	4817.8	4504.7	4472.9
67.5°	4632.5	4575.0	4108.5	3948.8	3936.0
70°	3755.0	3744.3	3484.5	3403.5	3412.0
72.5°	3001.1	2988.2	2950.0	2909.4	2911.5
75°	2298.2	2338.6	2413.2	2445.0	2443.1
77.5°	1714.6	1797.7	1955.2	2019.1	2008.4
80°	1224.7	1348.3	1548.5	1608.1	1542.1
82.5°	815.7	945.6	1182.0	1190.6	1137.3
85°	481.3	619.7	834.9	828.5	796.5
87.5°	238.5	372.7	500.5	479.1	458.0
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)