

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: P731067

Luminaire Tested: **HBLED-LD5-48HE-W-AI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-AI-UNV-L740
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44192.0 lumens
Efficiency: N/A
Efficacy: 168.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

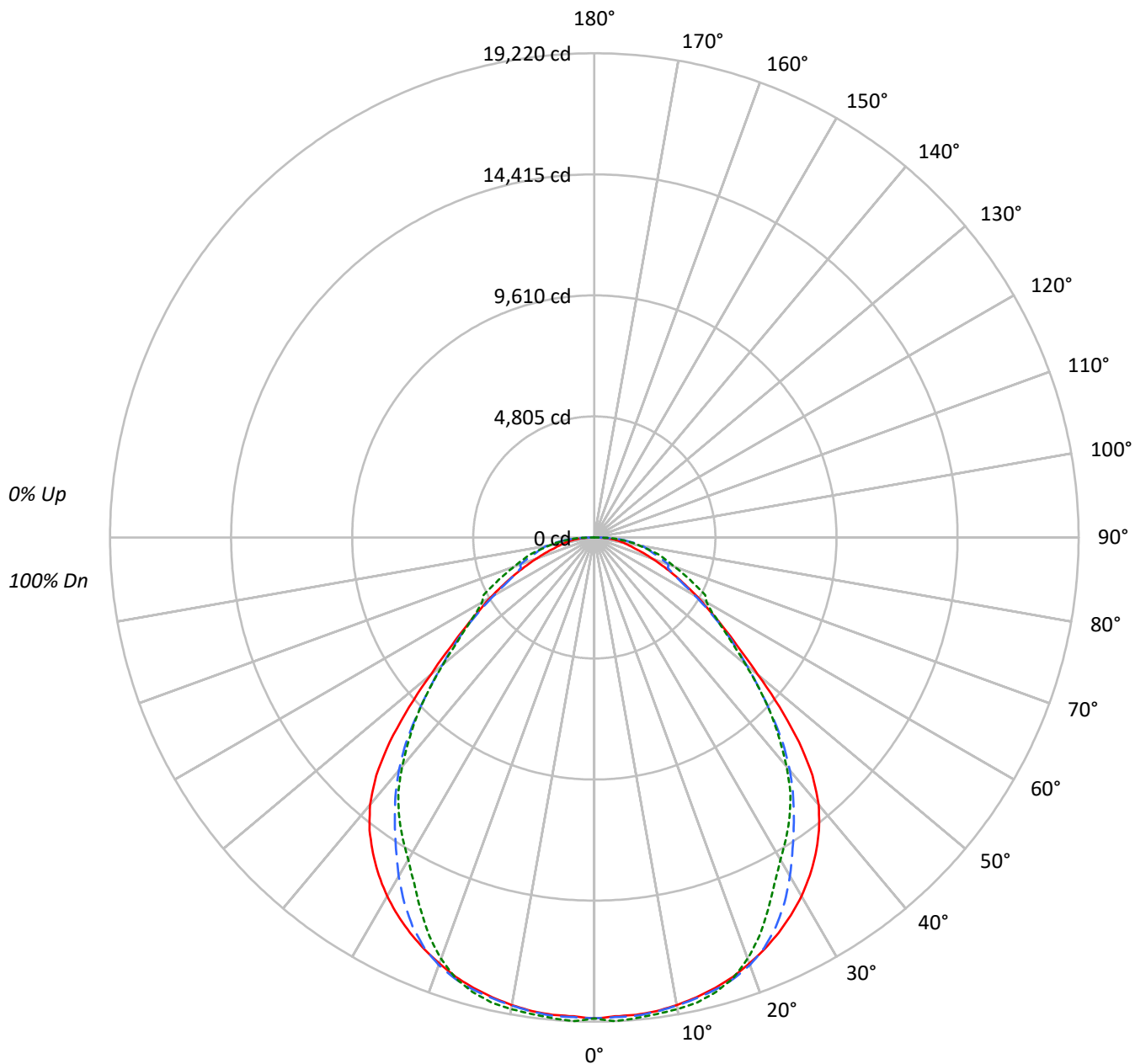
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30826	30826	30826
5°	30825	30891	31042
10°	30901	30940	31167
15°	30949	31064	31216
20°	30917	31033	30572
25°	30839	30377	29056
30°	30657	28944	27533
35°	30196	27204	26637
40°	29186	25436	25016
45°	26233	22713	22629
50°	21277	19784	19648
55°	17667	17339	17332
60°	15296	14850	16602
65°	13257	13174	16734
70°	11430	14778	15952
75°	10250	15147	16629
80°	10655	17830	16683
85°	12093	20548	19064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1817.8	4.1
10°-20°	5250.0	11.9
20°-30°	7797.4	17.6
30°-40°	8852.3	20.0
40°-50°	7913.6	17.9
50°-60°	5471.5	12.4
60°-70°	3610.4	8.2
70°-80°	2435.7	5.5
80°-90°	1043.2	2.4
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°	14865.3	33.6
0°-40°	23717.6	53.7
0°-60°	37102.6	84.0
0°-90°	44192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	44192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19092	19092	19092	19092	19092	
5°	19019	19136	19060	19138	19153	###
15°	18515	18604	18584	18688	18675	5226
25°	17311	17475	17052	16543	16310	7976
35°	15320	14998	13802	13601	13514	9553
45°	11489	10516	9947	10023	9910	8737
55°	6276	5729	6160	6073	6157	5701
65°	3470	3081	3448	4032	4380	3463
75°	1643	2067	2428	2594	2666	1794
85°	653	908	1109	1116	1029	681
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19092.4	19092.4	19092.4	19092.4	19092.4
2.5°	19027.5	19146.4	19057.7	19139.9	19219.8
5°	19018.7	19135.5	19059.8	19137.6	19152.8
7.5°	18964.7	19072.8	18984.1	19059.8	19077.1
10°	18847.9	18975.6	18871.7	18988.5	19010.2
12.5°	18696.7	18826.4	18735.5	18895.5	18904.2
15°	18515.0	18603.7	18584.3	18687.9	18675.0
17.5°	18285.8	18387.6	18372.4	18398.2	18337.8
20°	17994.0	18108.5	18061.0	17942.1	17793.0
22.5°	17680.5	17818.8	17630.9	17330.4	17120.5
25°	17310.8	17475.1	17051.5	16543.4	16309.8
27.5°	16902.2	17049.2	16344.4	15721.9	15479.7
30°	16443.9	16506.5	15525.0	14932.6	14768.3
32.5°	15914.2	15823.4	14649.4	14258.1	14163.0
35°	15319.7	14997.5	13802.0	13600.9	13514.3
37.5°	14649.4	14059.3	12965.4	12872.4	12781.4
40°	13847.4	12976.0	12068.1	12007.6	11869.1
42.5°	12811.9	11797.8	11071.4	11000.0	10876.8
45°	11488.7	10515.7	9947.2	10022.9	9910.4
47.5°	9966.6	9229.5	8868.4	9076.0	8868.4
50°	8470.5	7975.5	7876.1	8064.2	7822.0
52.5°	7244.7	6799.4	7004.9	7037.2	6892.4
55°	6276.1	5729.2	6159.5	6073.0	6157.2
57.5°	5433.1	4821.1	5350.9	5251.4	5541.1
60°	4736.9	4049.4	4598.6	4576.9	5141.1
62.5°	4053.8	3504.6	3945.5	4263.4	4957.3
65°	3470.0	3080.8	3448.3	4032.1	4380.2
67.5°	2910.0	2762.9	3154.2	3478.5	3859.2
70°	2421.3	2497.0	3130.4	3070.0	3379.1
72.5°	2010.6	2268.0	2762.9	2773.8	2992.2
75°	1643.1	2066.9	2428.0	2594.4	2665.7
77.5°	1366.3	1874.4	2192.3	2250.7	2181.4
80°	1145.9	1651.7	1917.6	1891.7	1794.3
82.5°	925.2	1251.8	1511.3	1535.1	1420.4
85°	652.8	908.1	1109.2	1115.6	1029.1
87.5°	350.2	560.0	672.4	691.8	639.9
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)