

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: P731069

Luminaire Tested: **HBLED-LD5-48HE-W-AI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731069
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-L835
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: 41002.0 lumens
Efficiency: N/A
Efficacy: 155.9 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

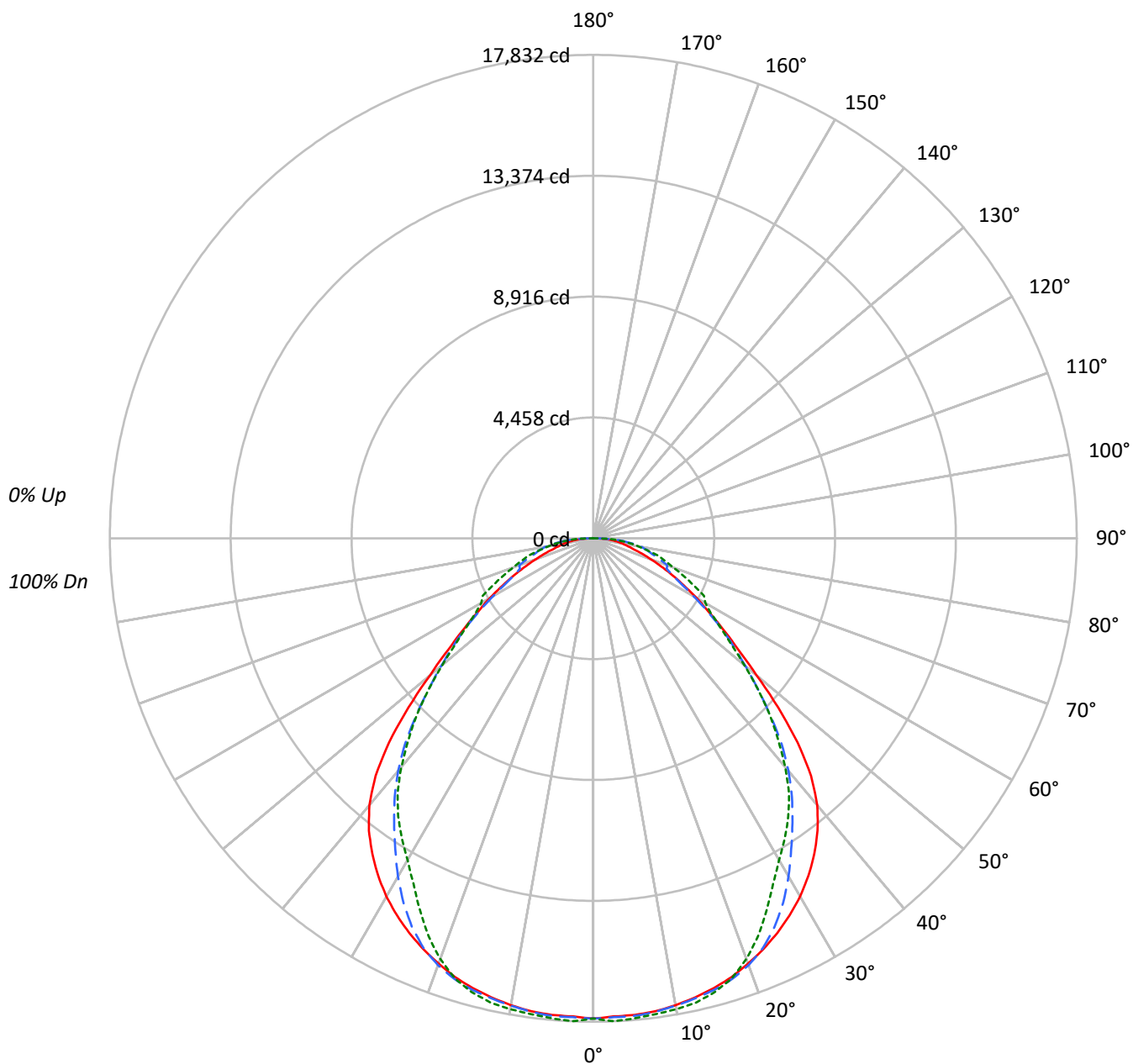
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28601	28601	28601
5°	28600	28661	28801
10°	28671	28707	28917
15°	28715	28822	28963
20°	28686	28792	28365
25°	28613	28184	26959
30°	28444	26855	25546
35°	28016	25241	24715
40°	27079	23600	23211
45°	24339	21073	20996
50°	19741	18355	18230
55°	16392	16087	16081
60°	14192	13778	15403
65°	12300	12223	15526
70°	10605	13711	14800
75°	9510	14053	15429
80°	9886	16543	15479
85°	11221	19064	17688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1686.6	4.1
10°-20°	4871.1	11.9
20°-30°	7234.6	17.6
30°-40°	8213.3	20.0
40°-50°	7342.3	17.9
50°-60°	5076.5	12.4
60°-70°	3349.7	8.2
70°-80°	2259.9	5.5
80°-90°	967.9	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°	13792.3	33.6
0°-40°	22005.5	53.7
0°-60°	34424.4	84.0
0°-90°	41002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17714	17714	17714	17714	17714	
5°	17646	17754	17684	17756	17770	###
15°	17178	17261	17243	17339	17327	4849
25°	16061	16214	15821	15349	15132	7401
35°	14214	13915	12806	12619	12539	8864
45°	10659	9757	9229	9299	9195	8106
55°	5823	5316	5715	5635	5713	5289
65°	3220	2858	3199	3741	4064	3213
75°	1524	1918	2253	2407	2473	1665
85°	606	843	1029	1035	955	632
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17714.2	17714.2	17714.2	17714.2	17714.2
2.5°	17654.0	17764.3	17682.1	17758.3	17832.4
5°	17645.9	17754.2	17684.0	17756.2	17770.3
7.5°	17595.7	17696.0	17613.7	17684.0	17700.1
10°	17487.4	17605.8	17509.4	17617.8	17637.9
12.5°	17347.1	17467.4	17383.1	17531.5	17539.6
15°	17178.5	17260.8	17242.8	17339.0	17327.0
17.5°	16965.9	17060.3	17046.2	17070.2	17014.0
20°	16695.1	16801.4	16757.2	16646.9	16508.6
22.5°	16404.3	16532.6	16358.2	16079.4	15884.7
25°	16061.2	16213.7	15820.6	15349.2	15132.5
27.5°	15682.1	15818.5	15164.6	14587.0	14362.3
30°	15256.9	15315.0	14404.3	13854.7	13702.2
32.5°	14765.4	14681.2	13591.9	13228.9	13140.6
35°	14213.9	13914.9	12805.7	12619.1	12538.8
37.5°	13591.9	13044.5	12029.5	11943.2	11858.8
40°	12847.9	12039.3	11197.0	11140.9	11012.4
42.5°	11887.1	10946.2	10272.2	10206.0	10091.6
45°	10659.4	9756.6	9229.1	9299.4	9195.1
47.5°	9247.1	8563.2	8228.3	8420.8	8228.3
50°	7859.0	7399.8	7307.5	7482.1	7257.4
52.5°	6721.7	6308.6	6499.2	6529.2	6394.9
55°	5823.1	5315.7	5714.9	5634.6	5712.8
57.5°	5040.9	4473.1	4964.6	4872.3	5141.1
60°	4394.9	3757.1	4266.6	4246.5	4770.0
62.5°	3761.2	3251.6	3660.7	3955.6	4599.5
65°	3219.5	2858.4	3199.4	3741.0	4064.0
67.5°	2699.9	2563.5	2926.5	3227.4	3580.6
70°	2246.5	2316.8	2904.5	2848.3	3135.1
72.5°	1865.5	2104.3	2563.5	2573.6	2776.2
75°	1524.5	1917.7	2252.7	2407.1	2473.3
77.5°	1267.7	1739.1	2034.0	2088.2	2024.0
80°	1063.2	1532.4	1779.2	1755.2	1664.8
82.5°	858.4	1161.5	1402.2	1424.3	1317.8
85°	605.7	842.6	1029.1	1035.1	954.8
87.5°	324.9	519.6	623.9	641.9	593.7
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)