

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: P731066

Luminaire Tested: **HBLED-LD5-48HE-W-AI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731066
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-L735
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: 42892.0 lumens
Efficiency: N/A
Efficacy: 163.1 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

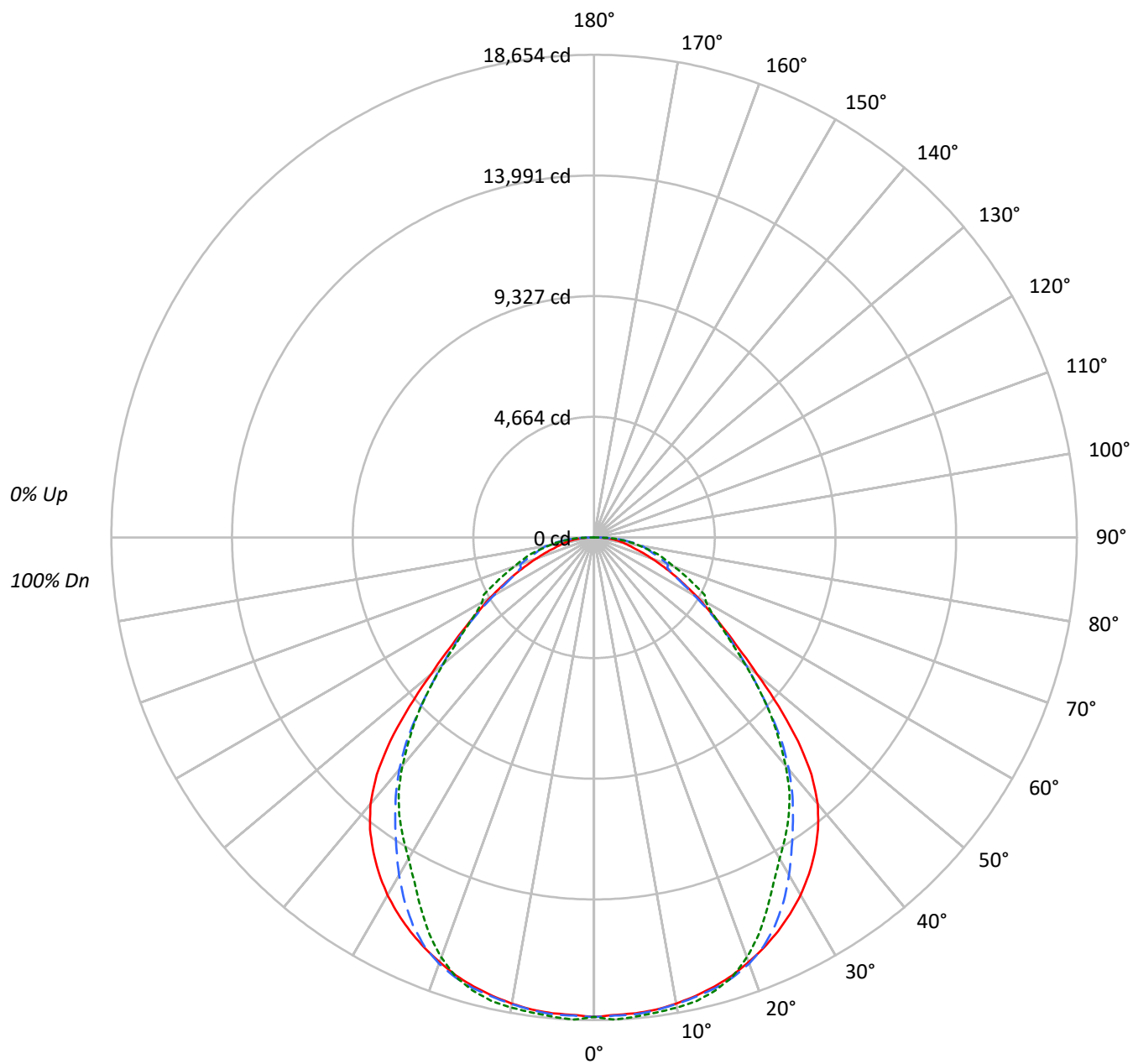
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29919	29919	29919
5°	29918	29983	30129
10°	29992	30030	30250
15°	30038	30151	30298
20°	30008	30120	29673
25°	29932	29484	28201
30°	29756	28093	26723
35°	29308	26404	25854
40°	28328	24688	24281
45°	25461	22045	21964
50°	20651	19202	19070
55°	17147	16829	16822
60°	14846	14413	16113
65°	12867	12787	16242
70°	11094	14343	15483
75°	9949	14701	16140
80°	10341	17306	16193
85°	11738	19944	18503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1764.4	4.1
10°-20°	5095.6	11.9
20°-30°	7568.1	17.6
30°-40°	8591.9	20.0
40°-50°	7680.8	17.9
50°-60°	5310.5	12.4
60°-70°	3504.2	8.2
70°-80°	2364.1	5.5
80°-90°	1012.6	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°	14428.0	33.6
0°-40°	23019.9	53.7
0°-60°	36011.2	84.0
0°-90°	42892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18531	18531	18531	18531	18531	
5°	18459	18573	18499	18575	18589	###
15°	17970	18056	18038	18138	18126	5072
25°	16802	16961	16550	16057	15830	7742
35°	14869	14556	13396	13201	13117	9272
45°	11151	10206	9654	9728	9619	8480
55°	6092	5561	5978	5894	5976	5533
65°	3368	2990	3347	3914	4251	3361
75°	1595	2006	2356	2518	2587	1742
85°	634	881	1077	1083	999	661
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18530.7	18530.7	18530.7	18530.7	18530.7
2.5°	18467.8	18583.2	18497.1	18576.9	18654.4
5°	18459.3	18572.6	18499.1	18574.6	18589.4
7.5°	18406.8	18511.7	18425.7	18499.1	18515.9
10°	18293.5	18417.4	18316.5	18429.9	18451.0
12.5°	18146.7	18272.6	18184.4	18339.6	18348.1
15°	17970.4	18056.4	18037.6	18138.2	18125.6
17.5°	17747.9	17846.7	17831.9	17857.0	17798.3
20°	17464.7	17575.8	17529.7	17414.3	17269.5
22.5°	17160.4	17294.7	17112.3	16820.5	16616.9
25°	16801.5	16961.0	16549.9	16056.8	15830.0
27.5°	16404.9	16547.7	15863.6	15259.4	15024.3
30°	15960.2	16020.9	15068.3	14493.4	14333.8
32.5°	15446.0	15358.0	14218.4	13838.7	13746.4
35°	14869.1	14556.3	13396.0	13200.8	13116.8
37.5°	14218.4	13645.8	12584.0	12493.7	12405.4
40°	13440.1	12594.3	11713.1	11654.4	11520.0
42.5°	12435.0	11450.7	10745.7	10676.4	10556.8
45°	11150.7	10206.4	9654.5	9728.0	9618.9
47.5°	9673.4	8958.0	8607.5	8809.0	8607.5
50°	8221.3	7740.9	7644.4	7827.0	7591.9
52.5°	7031.6	6599.4	6798.8	6830.2	6689.7
55°	6091.5	5560.7	5978.3	5894.3	5976.1
57.5°	5273.2	4679.3	5193.5	5096.9	5378.1
60°	4597.5	3930.3	4463.3	4442.2	4989.8
62.5°	3934.5	3401.5	3829.5	4138.0	4811.5
65°	3367.9	2990.2	3346.9	3913.5	4251.3
67.5°	2824.4	2681.7	3061.4	3376.2	3745.7
70°	2350.1	2423.6	3038.4	2979.6	3279.7
72.5°	1951.5	2201.3	2681.7	2692.2	2904.1
75°	1594.8	2006.1	2356.5	2518.1	2587.3
77.5°	1326.2	1819.3	2127.8	2184.5	2117.3
80°	1112.2	1603.1	1861.2	1836.1	1741.6
82.5°	898.0	1215.0	1466.8	1489.9	1378.6
85°	633.6	881.4	1076.6	1082.8	998.8
87.5°	339.9	543.5	652.7	671.5	621.1
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)