

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: P731106

Luminaire Tested: **HBLED-LD5-48SE-W-AI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731106
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-LD5-48SE-W-AI-UNV-L840
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41695.0 lumens
Efficiency: N/A
Efficacy: 146.0 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

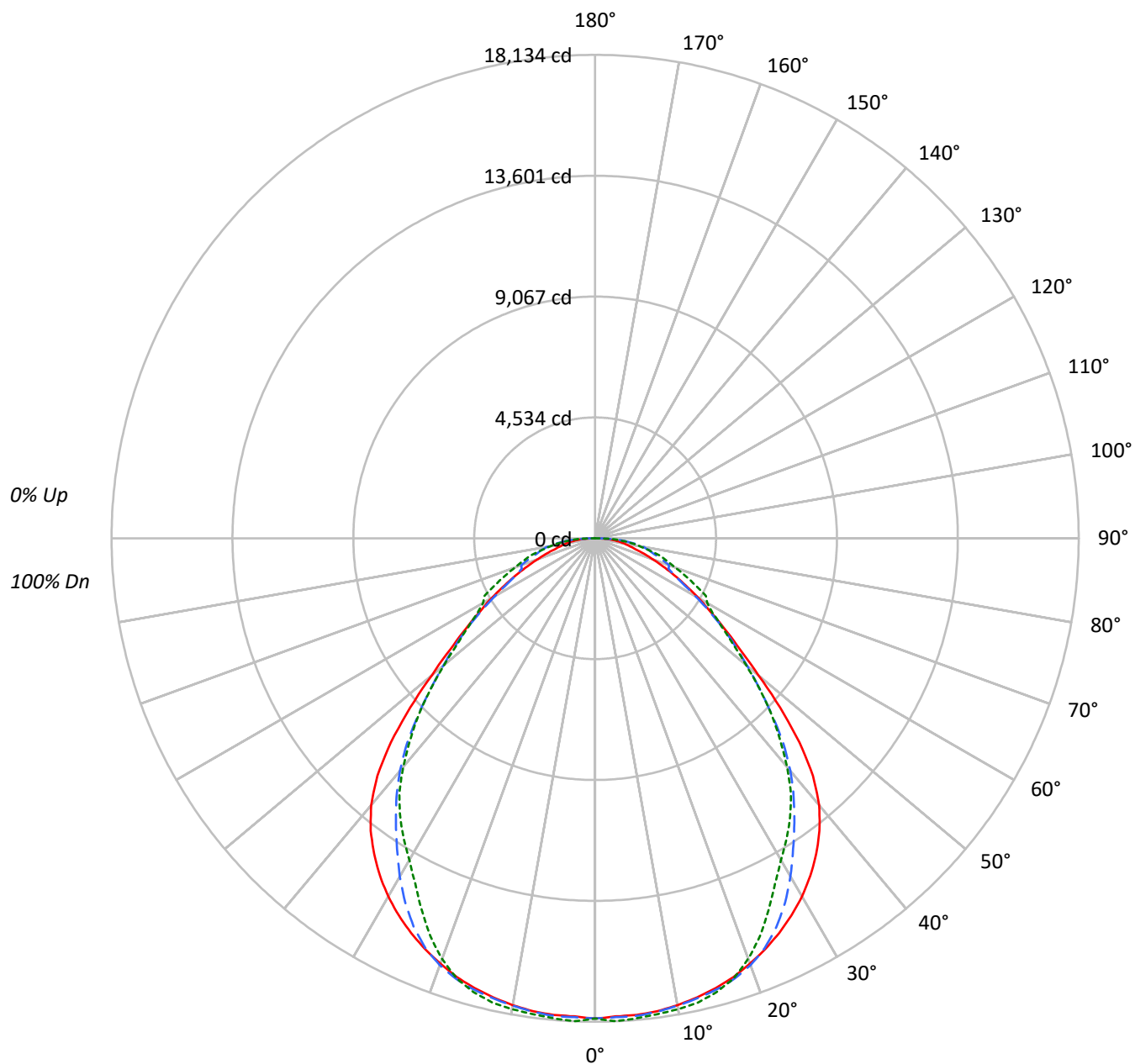
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29085	29085	29085
5°	29083	29146	29288
10°	29155	29192	29406
15°	29200	29309	29452
20°	29171	29279	28845
25°	29097	28661	27414
30°	28925	27309	25978
35°	28490	25667	25132
40°	27537	23999	23603
45°	24751	21430	21351
50°	20074	18666	18538
55°	16669	16359	16353
60°	14432	14010	15663
65°	12508	12430	15789
70°	10785	13943	15050
75°	9671	14291	15690
80°	10052	16822	15741
85°	11410	19387	17986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1715.1	4.1
10°-20°	4953.4	11.9
20°-30°	7356.9	17.6
30°-40°	8352.1	20.0
40°-50°	7466.4	17.9
50°-60°	5162.3	12.4
60°-70°	3406.4	8.2
70°-80°	2298.1	5.5
80°-90°	984.3	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°	14025.4	33.6
0°-40°	22377.5	53.7
0°-60°	35006.2	84.0
0°-90°	41695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18014	18014	18014	18014	18014	
5°	17944	18054	17983	18056	18071	###
15°	17469	17552	17534	17632	17620	4931
25°	16333	16488	16088	15609	15388	7526
35°	14454	14150	13022	12832	12751	9013
45°	10840	9922	9385	9456	9350	8243
55°	5922	5406	5812	5730	5809	5379
65°	3274	2907	3254	3804	4133	3267
75°	1550	1950	2291	2448	2515	1693
85°	616	857	1046	1053	971	642
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18013.6	18013.6	18013.6	18013.6	18013.6
2.5°	17952.4	18064.5	17980.9	18058.4	18133.8
5°	17944.1	18054.3	17982.9	18056.3	18070.6
7.5°	17893.1	17995.1	17911.4	17982.9	17999.2
10°	17782.9	17903.4	17805.4	17915.6	17936.0
12.5°	17640.3	17762.7	17676.9	17827.8	17836.1
15°	17468.9	17552.5	17534.2	17632.0	17619.8
17.5°	17252.6	17348.6	17334.3	17358.7	17301.6
20°	16977.3	17085.3	17040.5	16928.3	16787.6
22.5°	16681.5	16812.0	16634.7	16351.1	16153.2
25°	16332.6	16487.7	16088.0	15608.7	15388.3
27.5°	15947.1	16085.9	15420.9	14833.5	14605.1
30°	15514.8	15573.8	14647.8	14088.9	13933.8
32.5°	15015.0	14929.4	13821.6	13452.5	13362.7
35°	14454.1	14150.1	13022.1	12832.4	12750.7
37.5°	13821.6	13264.9	12232.8	12145.0	12059.2
40°	13065.0	12242.8	11386.2	11329.2	11198.5
42.5°	12088.0	11131.2	10445.8	10378.5	10262.2
45°	10839.6	9921.5	9385.1	9456.5	9350.5
47.5°	9403.4	8708.0	8367.3	8563.1	8367.3
50°	7991.9	7524.9	7431.0	7608.5	7380.1
52.5°	6835.4	6415.2	6609.1	6639.6	6503.0
55°	5921.5	5405.5	5811.5	5729.8	5809.3
57.5°	5126.1	4548.7	5048.5	4954.7	5228.0
60°	4469.2	3820.6	4338.7	4318.3	4850.6
62.5°	3824.7	3306.6	3722.6	4022.5	4677.2
65°	3273.9	2906.7	3253.5	3804.3	4132.7
67.5°	2745.6	2606.8	2976.0	3282.0	3641.1
70°	2284.5	2355.9	2953.6	2896.5	3188.1
72.5°	1897.0	2139.8	2606.8	2617.1	2823.1
75°	1550.3	1950.1	2290.8	2447.8	2515.1
77.5°	1289.1	1768.5	2068.4	2123.5	2058.2
80°	1081.1	1558.3	1809.2	1784.8	1692.9
82.5°	872.9	1181.1	1425.9	1448.3	1340.1
85°	615.9	856.8	1046.5	1052.6	970.9
87.5°	330.4	528.4	634.4	652.7	603.7
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)