

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: P731085

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-UNV-L740
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50104.0 lumens
Efficiency: N/A
Efficacy: 190.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

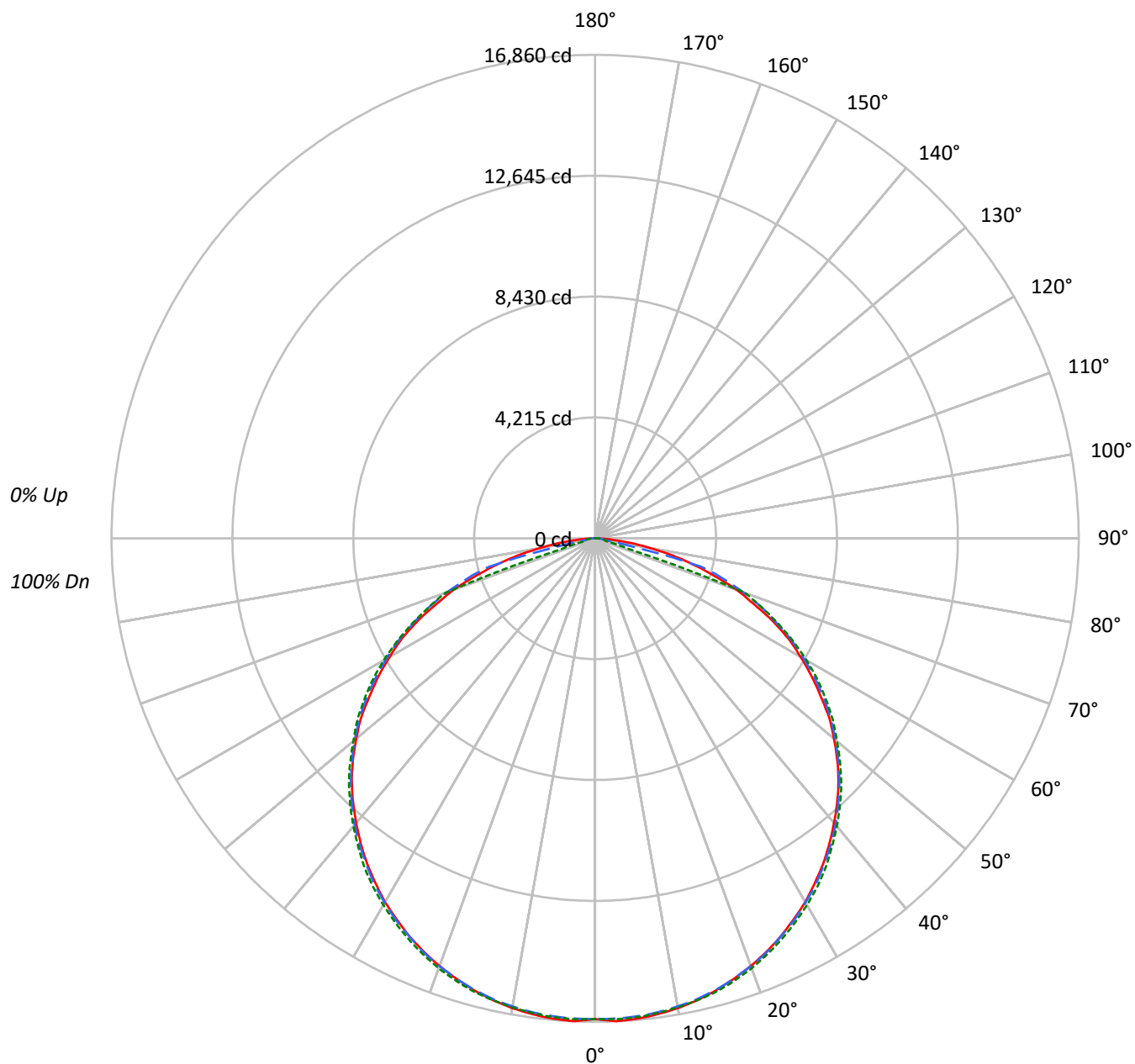
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27070	27070	27070
5°	27265	27126	27174
10°	27280	27182	27237
15°	27276	27239	27364
20°	27274	27281	27422
25°	27287	27301	27467
30°	27317	27352	27533
35°	27312	27401	27629
40°	27316	27490	27639
45°	27393	27495	27717
50°	27310	27470	27648
55°	27010	27388	27682
60°	26703	27137	27474
65°	26113	26655	26855
70°	24790	25848	26166
75°	22112	23976	2889
80°	17781	2987	3160
85°	11832	3875	3944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1592.4	3.2
10°-20°	4601.3	9.2
20°-30°	7069.6	14.1
30°-40°	8703.0	17.4
40°-50°	9278.3	18.5
50°-60°	8673.3	17.3
60°-70°	6866.0	13.7
70°-80°	2921.2	5.8
80°-90°	398.9	0.8
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°	13263.4	26.5
0°-40°	21966.4	43.8
0°-60°	39917.9	79.7
0°-90°	50104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	50104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16766	16766	16766	16766	16766	
5°	16822	16748	16736	16669	16766	###
15°	16318	16288	16296	16251	16370	4607
25°	15317	15298	15324	15317	15418	7062
35°	13857	13834	13902	13950	14017	8670
45°	11997	11930	12042	12090	12139	9244
55°	9595	9625	9730	9763	9834	8592
65°	6835	6895	6977	7029	7029	6724
75°	3544	3698	3843	628	463	3750
85°	639	190	209	217	213	833
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16766.2	16766.2	16766.2	16766.2	16766.2
2.5°	16859.6	16781.2	16766.2	16699.0	16788.6
5°	16822.3	16747.6	16736.4	16669.1	16766.2
7.5°	16743.8	16684.1	16676.6	16605.6	16702.7
10°	16639.2	16583.2	16579.5	16516.0	16613.1
12.5°	16497.3	16448.8	16463.7	16400.2	16497.3
15°	16318.0	16288.2	16295.6	16250.8	16370.3
17.5°	16101.4	16086.5	16101.4	16067.8	16176.1
20°	15873.6	15854.9	15877.3	15858.6	15959.5
22.5°	15608.4	15586.0	15630.8	15604.7	15698.0
25°	15317.1	15298.4	15324.5	15317.1	15417.9
27.5°	14984.7	14966.0	15022.0	15025.7	15104.2
30°	14652.2	14626.1	14670.9	14689.6	14768.0
32.5°	14256.3	14248.9	14316.1	14331.0	14413.2
35°	13856.7	13834.3	13901.5	13950.1	14017.3
37.5°	13419.7	13416.0	13486.9	13528.0	13561.6
40°	12960.3	12941.6	13042.5	13083.6	13113.4
42.5°	12493.4	12452.4	12549.5	12601.8	12635.4
45°	11996.7	11929.5	12041.5	12090.1	12138.6
47.5°	11451.4	11391.6	11499.9	11552.2	11585.8
50°	10872.5	10816.4	10936.0	10980.8	11006.9
52.5°	10289.8	10233.8	10360.8	10398.1	10461.6
55°	9595.1	9625.0	9729.6	9763.2	9834.1
57.5°	8952.7	8978.8	9079.7	9120.8	9202.9
60°	8269.2	8310.3	8403.7	8444.7	8508.2
62.5°	7608.1	7611.8	7723.9	7742.6	7791.1
65°	6835.0	6894.7	6976.9	7029.2	7029.2
67.5°	5972.2	6117.9	6259.8	6248.6	6278.5
70°	5251.4	5307.4	5475.4	5501.6	5542.7
72.5°	4347.5	4493.2	4679.9	3495.9	1187.7
75°	3544.5	3697.6	3843.3	627.5	463.1
77.5°	2752.7	2872.2	1277.4	358.6	351.1
80°	1912.3	2102.8	321.2	328.7	339.9
82.5°	1258.7	1027.1	265.2	291.3	295.1
85°	638.7	190.5	209.2	216.6	212.9
87.5°	209.2	115.8	119.5	123.3	127.0
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)