

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: P731087

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731087
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-L835
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46487.0 lumens
Efficiency: N/A
Efficacy: 176.8 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

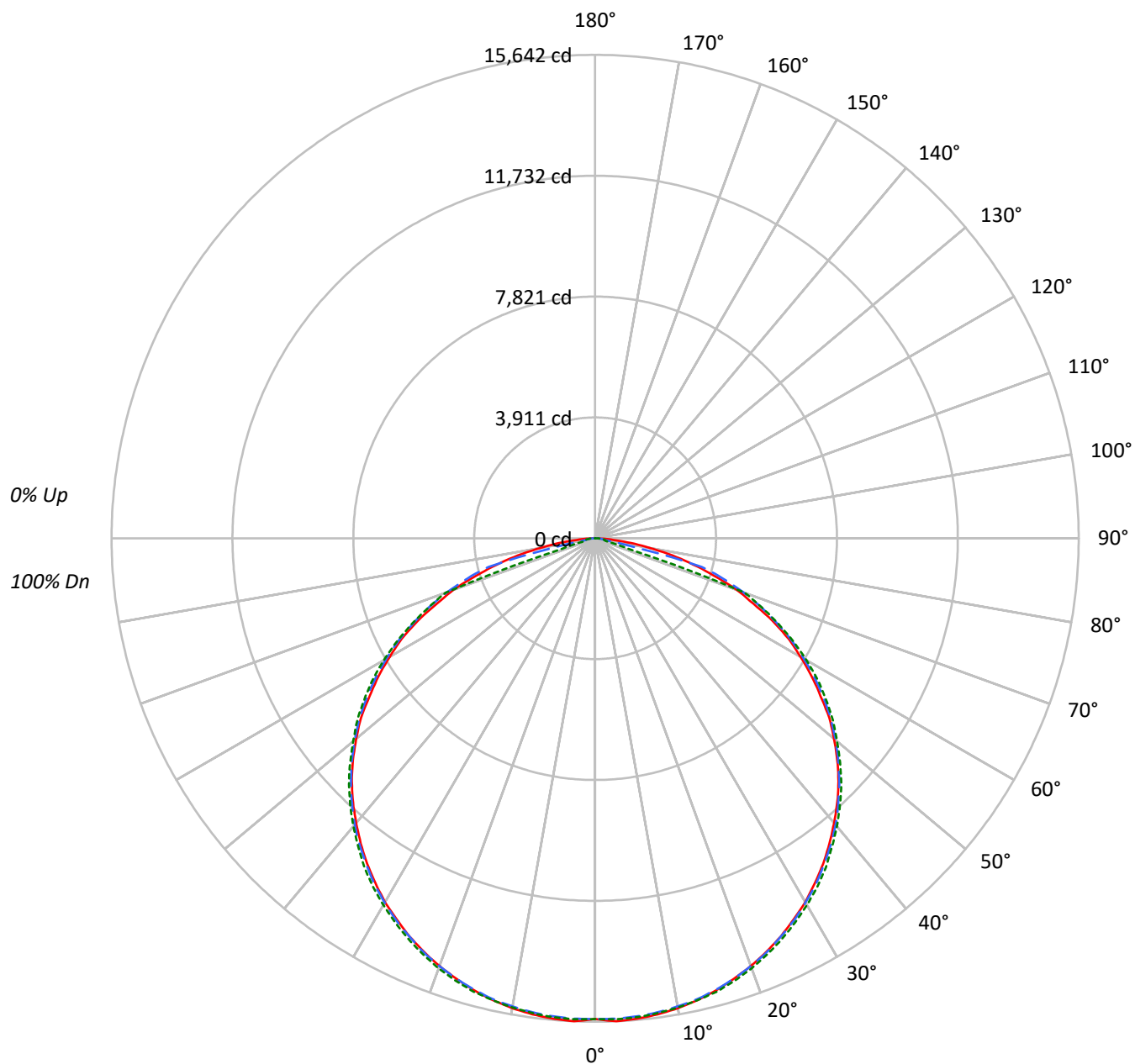
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P731087

CATALOG NUMBER: HBLED-LD5-48HE-W-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P731087

CATALOG NUMBER: HBLED-LD5-48HE-W-UNV-L835

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°	25116	25116	25116
5°	25297	25167	25212
10°	25311	25220	25271
15°	25307	25272	25388
20°	25305	25311	25442
25°	25317	25330	25484
30°	25345	25377	25545
35°	25341	25423	25634
40°	25344	25505	25644
45°	25415	25510	25716
50°	25339	25487	25652
55°	25060	25411	25684
60°	24775	25178	25491
65°	24228	24730	24916
70°	23001	23982	24277
75°	20515	22244	2681
80°	16498	2771	2932
85°	10978	3596	3659



TEST NUMBER: P731087

CATALOG NUMBER: HBLED-LD5-48HE-W-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1477.5	3.2
10°-20°	4269.2	9.2
20°-30°	6559.3	14.1
30°-40°	8074.7	17.4
40°-50°	8608.5	18.5
50°-60°	8047.2	17.3
60°-70°	6370.3	13.7
70°-80°	2710.3	5.8
80°-90°	370.1	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°	12305.9	26.5
0°-40°	20380.6	43.8
0°-60°	37036.2	79.7
0°-90°	46487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15556	15556	15556	15556	15556	
5°	15608	15539	15528	15466	15556	###
15°	15140	15112	15119	15078	15189	4275
25°	14211	14194	14218	14211	14305	6552
35°	12856	12836	12898	12943	13005	8044
45°	11131	11068	11172	11217	11262	8576
55°	8902	8930	9027	9058	9124	7972
65°	6342	6397	6473	6522	6522	6239
75°	3289	3431	3566	582	430	3479
85°	593	177	194	201	198	773
90°	0	0	0	0	0	



TEST NUMBER: P731087

CATALOG NUMBER: HBLED-LD5-48HE-W-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15555.9	15555.9	15555.9	15555.9	15555.9
2.5°	15642.5	15569.7	15555.9	15493.5	15576.7
5°	15607.9	15538.6	15528.2	15465.8	15555.9
7.5°	15535.1	15479.6	15472.7	15406.9	15497.0
10°	15438.1	15386.1	15382.6	15323.7	15413.8
12.5°	15306.4	15261.3	15275.2	15216.3	15306.4
15°	15140.0	15112.3	15119.2	15077.7	15188.6
17.5°	14939.1	14925.2	14939.1	14907.9	15008.4
20°	14727.7	14710.3	14731.1	14713.8	14807.4
22.5°	14481.6	14460.8	14502.4	14478.2	14564.8
25°	14211.3	14194.0	14218.3	14211.3	14304.9
27.5°	13902.9	13885.6	13937.6	13941.0	14013.8
30°	13594.5	13570.2	13611.8	13629.2	13701.9
32.5°	13227.2	13220.2	13282.6	13296.5	13372.7
35°	12856.4	12835.6	12898.0	12943.0	13005.4
37.5°	12450.9	12447.5	12513.3	12551.4	12582.6
40°	12024.7	12007.4	12100.9	12139.1	12166.8
42.5°	11591.5	11553.4	11643.5	11692.0	11723.2
45°	11130.6	11068.3	11172.2	11217.3	11262.3
47.5°	10624.7	10569.3	10669.8	10718.3	10749.5
50°	10087.6	10035.6	10146.5	10188.1	10212.3
52.5°	9547.0	9495.0	9612.8	9647.5	9706.4
55°	8902.4	8930.2	9027.2	9058.4	9124.2
57.5°	8306.4	8330.7	8424.2	8462.3	8538.6
60°	7672.2	7710.4	7797.0	7835.1	7894.0
62.5°	7058.9	7062.3	7166.3	7183.6	7228.7
65°	6341.6	6397.0	6473.2	6521.8	6521.8
67.5°	5541.1	5676.2	5807.9	5797.5	5825.2
70°	4872.3	4924.2	5080.2	5104.4	5142.6
72.5°	4033.6	4168.8	4342.1	3243.6	1102.0
75°	3288.6	3430.7	3565.8	582.2	429.7
77.5°	2554.0	2664.8	1185.1	332.7	325.7
80°	1774.3	1951.0	298.0	304.9	315.3
82.5°	1167.8	953.0	246.0	270.3	273.8
85°	592.6	176.7	194.1	201.0	197.5
87.5°	194.1	107.4	110.9	114.4	117.8
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)