

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: P731078

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-FLI-UNV-L735
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43184.0 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

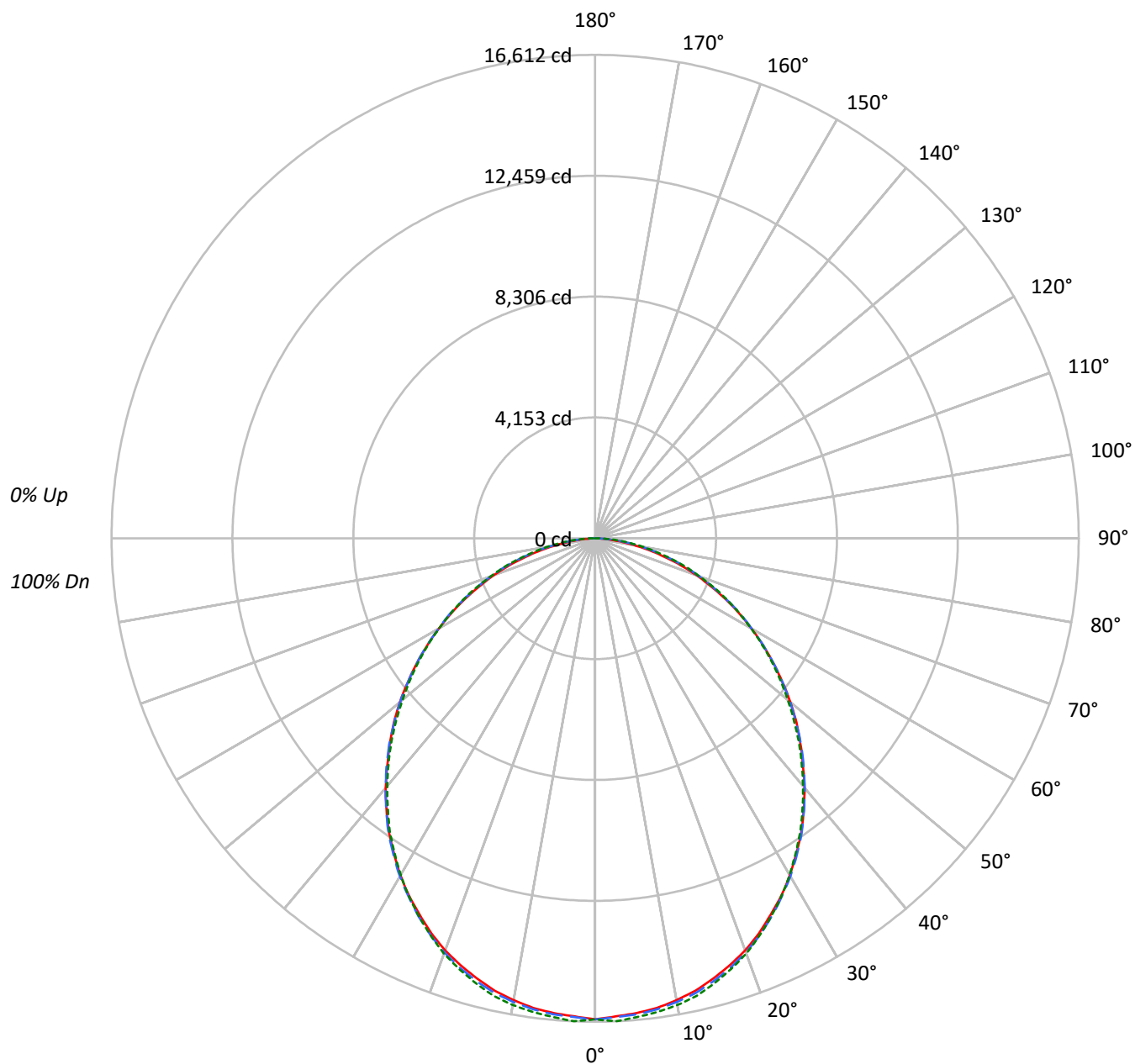
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26692	26692	26692
5°	26541	26615	26767
10°	26420	26527	26699
15°	26188	26330	26459
20°	25891	26016	26091
25°	25412	25556	25519
30°	24944	25010	24908
35°	24326	24388	24233
40°	23595	23595	23413
45°	22770	22832	22599
50°	21987	21950	21676
55°	21036	21038	20849
60°	20017	20040	19962
65°	18865	19054	19102
70°	17425	17902	17921
75°	15399	16397	16652
80°	12630	14360	15172
85°	8764	12056	13633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1563.5	3.6
10°-20°	4447.9	10.3
20°-30°	6609.8	15.3
30°-40°	7728.6	17.9
40°-50°	7705.6	17.8
50°-60°	6685.6	15.5
60°-70°	4938.1	11.4
70°-80°	2764.8	6.4
80°-90°	737.7	1.7
90°-100°	2.2	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°	12621.2	29.2
0°-40°	20349.9	47.1
0°-60°	34741.2	80.4
0°-90°	43181.8	100.0
90°-120°	2.2	0.0
90°-150°	2.2	0.0
90°-180°	2.0	0.0
0°-180°	43184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16532	16532	16532	16532	16532	
5°	16375	16479	16422	16494	16515	###
15°	15667	15776	15752	15828	15829	4418
25°	14264	14379	14345	14377	14324	6576
35°	12342	12450	12373	12371	12294	7709
45°	9972	10078	9999	9958	9897	7698
55°	7473	7524	7474	7461	7406	6682
65°	4938	4986	4988	5013	5000	4884
75°	2468	2542	2628	2647	2669	2629
85°	473	572	651	709	736	575
90°	0	10	13	28	26	19
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P731078

CATALOG NUMBER: HBLED-LD5-48HE-W-FLI-UNV-L735

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16532.0	16532.0	16532.0	16532.0	16532.0
2.5°	16441.7	16539.5	16471.1	16536.3	16612.1
5°	16375.4	16478.6	16421.6	16494.2	16515.2
7.5°	16278.8	16378.7	16324.0	16396.5	16418.6
10°	16114.7	16223.1	16179.9	16262.0	16285.1
12.5°	15923.4	16025.3	15996.9	16092.6	16108.4
15°	15666.9	15776.3	15752.0	15827.7	15828.8
17.5°	15383.0	15485.9	15468.1	15527.1	15524.8
20°	15068.7	15179.0	15141.3	15205.3	15185.2
22.5°	14696.5	14814.2	14766.8	14820.5	14770.1
25°	14264.3	14379.0	14345.4	14376.8	14324.3
27.5°	13845.9	13951.1	13881.6	13919.5	13863.8
30°	13379.1	13468.5	13415.0	13427.5	13360.3
32.5°	12854.5	12960.7	12895.5	12893.4	12821.9
35°	12341.5	12449.7	12373.1	12370.9	12294.3
37.5°	11773.8	11874.7	11784.3	11789.6	11700.2
40°	11194.5	11281.8	11194.5	11190.2	11108.4
42.5°	10565.7	10681.4	10601.6	10610.9	10501.7
45°	9971.9	10078.0	9999.2	9958.1	9897.1
47.5°	9380.0	9426.2	9361.0	9350.4	9264.3
50°	8753.3	8788.0	8738.5	8726.0	8629.3
52.5°	8105.8	8165.7	8102.5	8085.7	8021.7
55°	7472.8	7524.2	7473.8	7461.2	7406.5
57.5°	6835.7	6903.0	6851.5	6838.8	6794.8
60°	6198.7	6218.6	6206.0	6224.8	6181.9
62.5°	5565.7	5611.9	5626.7	5621.4	5587.8
65°	4938.0	4986.4	4987.5	5012.8	5000.0
67.5°	4295.7	4358.7	4376.8	4402.9	4414.4
70°	3691.1	3739.5	3792.2	3807.8	3796.3
72.5°	3082.4	3160.2	3219.2	3232.8	3282.2
75°	2468.5	2542.1	2628.4	2647.2	2669.3
77.5°	1898.7	1996.4	2074.2	2099.5	2126.9
80°	1358.4	1466.6	1544.4	1579.0	1631.7
82.5°	891.5	1001.9	1080.8	1115.4	1179.6
85°	473.1	572.0	650.8	708.6	735.9
87.5°	139.8	223.9	269.1	285.9	310.2
90°	0.0	10.5	12.6	28.4	26.3
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: HBLED-LD5-48HE-W-FLI-UNV-L735

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)