

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: P731079

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731079
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-L740
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44493.0 lumens
Efficiency: N/A
Efficacy: 169.2 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

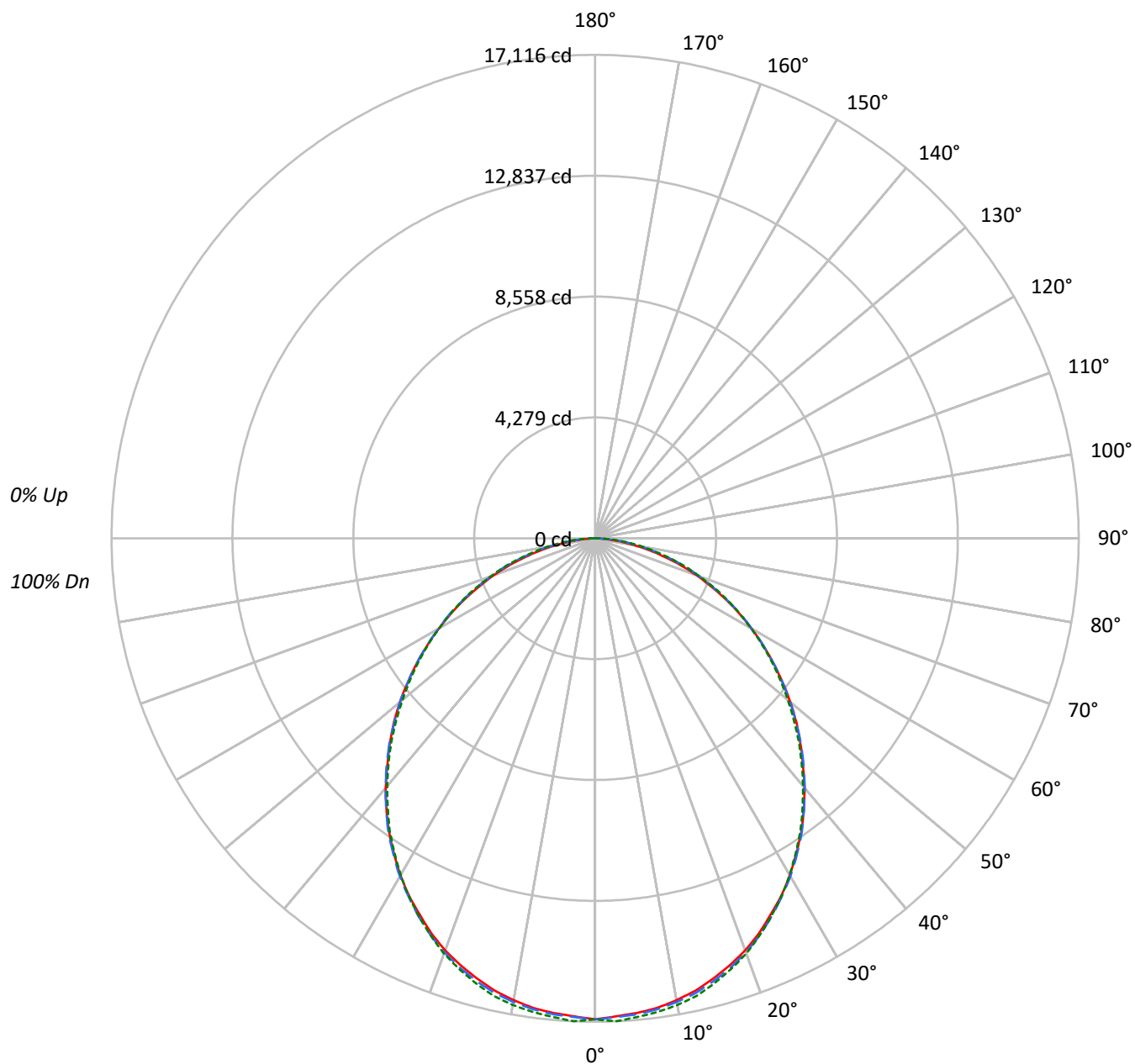
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	27502	27502	27502
5°	27345	27422	27578
10°	27221	27331	27509
15°	26982	27128	27261
20°	26676	26804	26882
25°	26182	26331	26292
30°	25700	25769	25663
35°	25063	25127	24967
40°	24310	24310	24123
45°	23460	23524	23284
50°	22654	22615	22333
55°	21673	21676	21481
60°	20623	20648	20568
65°	19437	19632	19681
70°	17953	18445	18464
75°	15866	16893	17157
80°	13013	14795	15631
85°	9031	12421	14046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1610.9	3.6
10°-20°	4582.7	10.3
20°-30°	6810.2	15.3
30°-40°	7962.9	17.9
40°-50°	7939.2	17.8
50°-60°	6888.3	15.5
60°-70°	5087.8	11.4
70°-80°	2848.6	6.4
80°-90°	760.1	1.7
90°-100°	2.3	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°	13003.8	29.2
0°-40°	20966.7	47.1
0°-60°	35794.2	80.4
0°-90°	44490.7	100.0
90°-120°	2.3	0.0
90°-150°	2.3	0.0
90°-180°	2.0	0.0
0°-180°	44493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17033	17033	17033	17033	17033	
5°	16872	16978	16919	16994	17016	###
15°	16142	16254	16229	16308	16309	4552
25°	14697	14815	14780	14813	14758	6776
35°	12716	12827	12748	12746	12667	7943
45°	10274	10384	10302	10260	10197	7931
55°	7699	7752	7700	7687	7631	6885
65°	5088	5138	5139	5165	5152	5032
75°	2543	2619	2708	2728	2750	2709
85°	488	589	670	730	758	592
90°	0	11	13	29	27	20
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17033.2	17033.2	17033.2	17033.2	17033.2
2.5°	16940.1	17040.9	16970.3	17037.6	17115.6
5°	16871.8	16978.1	16919.4	16994.1	17015.8
7.5°	16772.2	16875.1	16818.8	16893.5	16916.3
10°	16603.1	16714.8	16670.3	16754.9	16778.7
12.5°	16406.1	16511.1	16481.8	16580.4	16596.7
15°	16141.8	16254.5	16229.4	16307.5	16308.6
17.5°	15849.3	15955.3	15937.0	15997.7	15995.4
20°	15525.5	15639.1	15600.2	15666.2	15645.5
22.5°	15142.0	15263.3	15214.4	15269.8	15217.8
25°	14696.7	14814.9	14780.2	14812.6	14758.5
27.5°	14265.6	14374.0	14302.4	14341.4	14284.0
30°	13784.6	13876.7	13821.6	13834.5	13765.2
32.5°	13244.2	13353.6	13286.3	13284.3	13210.6
35°	12715.6	12827.1	12748.2	12745.9	12666.9
37.5°	12130.6	12234.6	12141.5	12146.9	12054.9
40°	11533.8	11623.8	11533.8	11529.4	11445.1
42.5°	10886.0	11005.2	10923.0	10932.6	10820.0
45°	10274.1	10383.5	10302.3	10259.9	10197.1
47.5°	9664.3	9711.9	9644.7	9633.9	9545.1
50°	9018.7	9054.4	9003.4	8990.5	8890.9
52.5°	8351.5	8413.2	8348.1	8330.8	8264.8
55°	7699.3	7752.3	7700.3	7687.4	7631.0
57.5°	7042.9	7112.3	7059.2	7046.1	7000.8
60°	6386.6	6407.1	6394.1	6413.5	6369.3
62.5°	5734.4	5782.0	5797.3	5791.8	5757.2
65°	5087.7	5137.6	5138.6	5164.7	5151.6
67.5°	4425.9	4490.9	4509.4	4536.4	4548.3
70°	3803.0	3852.9	3907.2	3923.2	3911.3
72.5°	3175.9	3256.0	3316.8	3330.8	3381.7
75°	2543.3	2619.1	2708.0	2727.5	2750.2
77.5°	1956.3	2056.9	2137.1	2163.2	2191.4
80°	1399.5	1511.0	1591.2	1626.9	1681.1
82.5°	918.5	1032.3	1113.5	1149.2	1215.4
85°	487.5	589.3	670.5	730.0	758.2
87.5°	144.0	230.7	277.2	294.6	319.6
90°	0.0	10.9	12.9	29.2	27.1
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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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)