

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: P731080

Luminaire Tested: **HBLED-LD5-48HE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731080
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-L750
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45563.0 lumens
Efficiency: N/A
Efficacy: 173.2 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

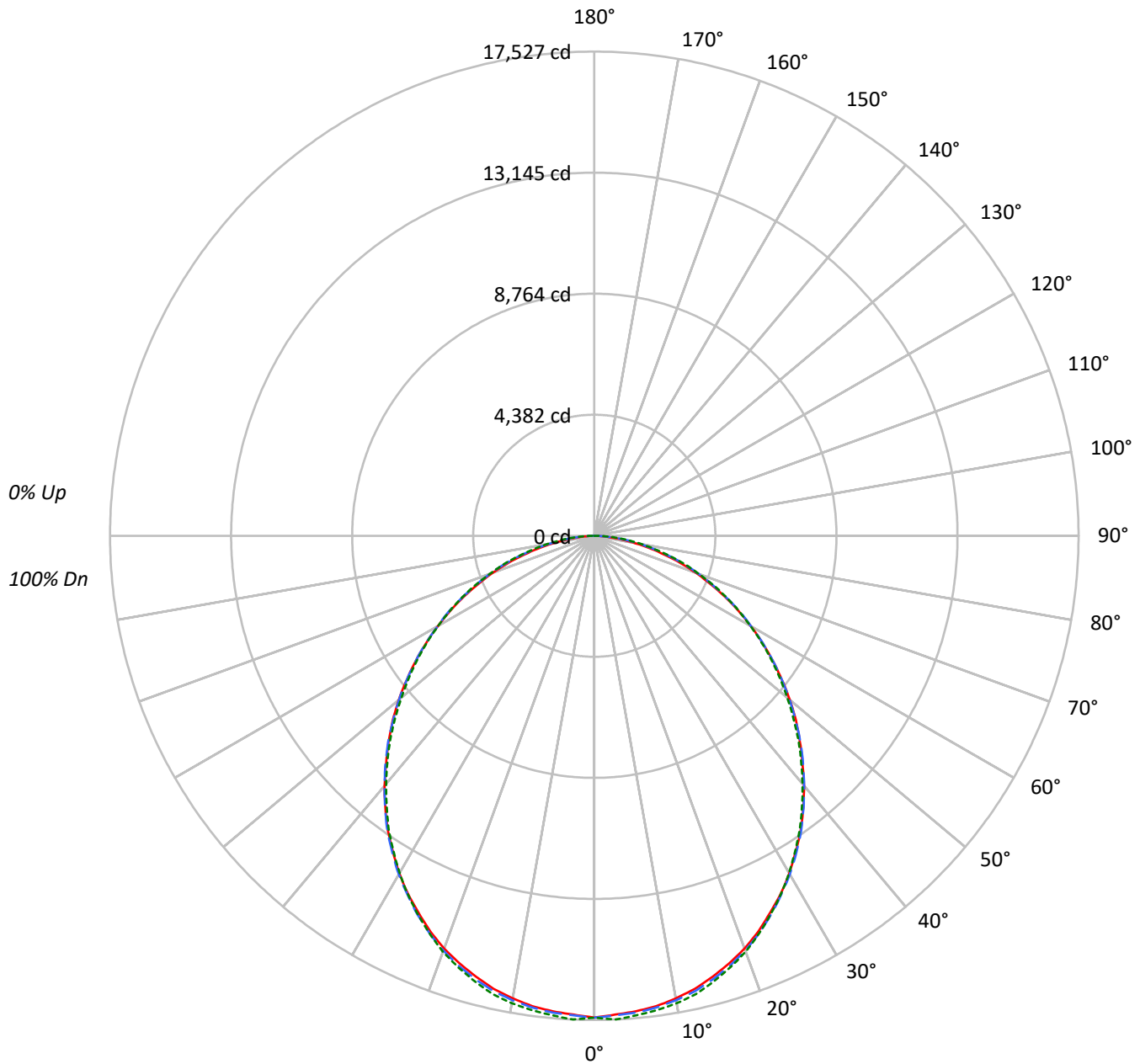
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28163	28163	28163
5°	28003	28082	28242
10°	27875	27988	28170
15°	27631	27781	27916
20°	27318	27449	27529
25°	26812	26964	26925
30°	26318	26388	26281
35°	25666	25731	25568
40°	24894	24894	24703
45°	24024	24090	23844
50°	23198	23159	22870
55°	22194	22197	21997
60°	21119	21144	21062
65°	19904	20104	20155
70°	18384	18888	18908
75°	16248	17300	17569
80°	13326	15150	16008
85°	9248	12721	14385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1649.7	3.6
10°-20°	4692.9	10.3
20°-30°	6974.0	15.3
30°-40°	8154.4	17.9
40°-50°	8130.1	17.8
50°-60°	7054.0	15.5
60°-70°	5210.2	11.4
70°-80°	2917.1	6.4
80°-90°	778.3	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°	13316.5	29.2
0°-40°	21470.9	47.1
0°-60°	36655.0	80.4
0°-90°	45560.6	100.0
90°-120°	2.3	0.0
90°-150°	2.3	0.0
90°-180°	2.0	0.0
0°-180°	45563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17443	17443	17443	17443	17443	
5°	17278	17386	17326	17403	17425	###
15°	16530	16645	16620	16700	16701	4662
25°	15050	15171	15136	15169	15113	6939
35°	13021	13136	13055	13052	12972	8134
45°	10521	10633	10550	10507	10442	8122
55°	7884	7939	7886	7872	7814	7050
65°	5210	5261	5262	5289	5276	5153
75°	2604	2682	2773	2793	2816	2774
85°	499	604	687	748	776	606
90°	0	11	13	30	28	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°	17442.8	17442.8	17442.8	17442.8	17442.8
2.5°	17347.4	17450.7	17378.4	17447.3	17527.2
5°	17277.5	17386.4	17326.3	17402.8	17425.1
7.5°	17175.6	17281.0	17223.2	17299.8	17323.1
10°	17002.4	17116.8	17071.2	17157.8	17182.2
12.5°	16800.6	16908.1	16878.2	16979.1	16995.8
15°	16530.0	16645.4	16619.7	16699.7	16700.8
17.5°	16230.4	16339.0	16320.2	16382.4	16380.1
20°	15898.9	16015.2	15975.4	16043.0	16021.8
22.5°	15506.2	15630.4	15580.3	15637.0	15583.8
25°	15050.2	15171.2	15135.7	15168.8	15113.4
27.5°	14608.7	14719.7	14646.3	14686.3	14627.5
30°	14116.2	14210.4	14154.0	14167.2	14096.3
32.5°	13562.7	13674.7	13605.9	13603.7	13528.3
35°	13021.4	13135.5	13054.7	13052.4	12971.6
37.5°	12422.4	12528.8	12433.5	12439.0	12344.8
40°	11811.2	11903.3	11811.2	11806.7	11720.3
42.5°	11147.8	11269.9	11185.6	11195.5	11080.3
45°	10521.2	10633.2	10550.1	10506.7	10442.3
47.5°	9896.8	9945.5	9876.7	9865.6	9774.7
50°	9235.5	9272.1	9219.9	9206.7	9104.7
52.5°	8552.3	8615.6	8548.9	8531.1	8463.6
55°	7884.4	7938.7	7885.5	7872.3	7814.5
57.5°	7212.3	7283.3	7229.0	7215.5	7169.1
60°	6540.2	6561.1	6547.9	6567.8	6522.4
62.5°	5872.3	5921.1	5936.7	5931.1	5895.6
65°	5210.0	5261.1	5262.2	5288.9	5275.5
67.5°	4532.4	4598.9	4617.9	4645.5	4657.6
70°	3894.4	3945.5	4001.1	4017.6	4005.4
72.5°	3252.2	3334.3	3396.5	3410.9	3463.0
75°	2604.5	2682.1	2773.2	2793.0	2816.3
77.5°	2003.3	2106.4	2188.5	2215.2	2244.1
80°	1433.2	1547.3	1629.4	1666.0	1721.6
82.5°	940.6	1057.1	1140.3	1176.9	1244.6
85°	499.2	603.5	686.7	747.6	776.5
87.5°	147.5	236.2	283.9	301.6	327.3
90°	0.0	11.1	13.3	29.9	27.8
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)