

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: P731073

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-CLI-UNV-L740
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46547.0 lumens
Efficiency: N/A
Efficacy: 177.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

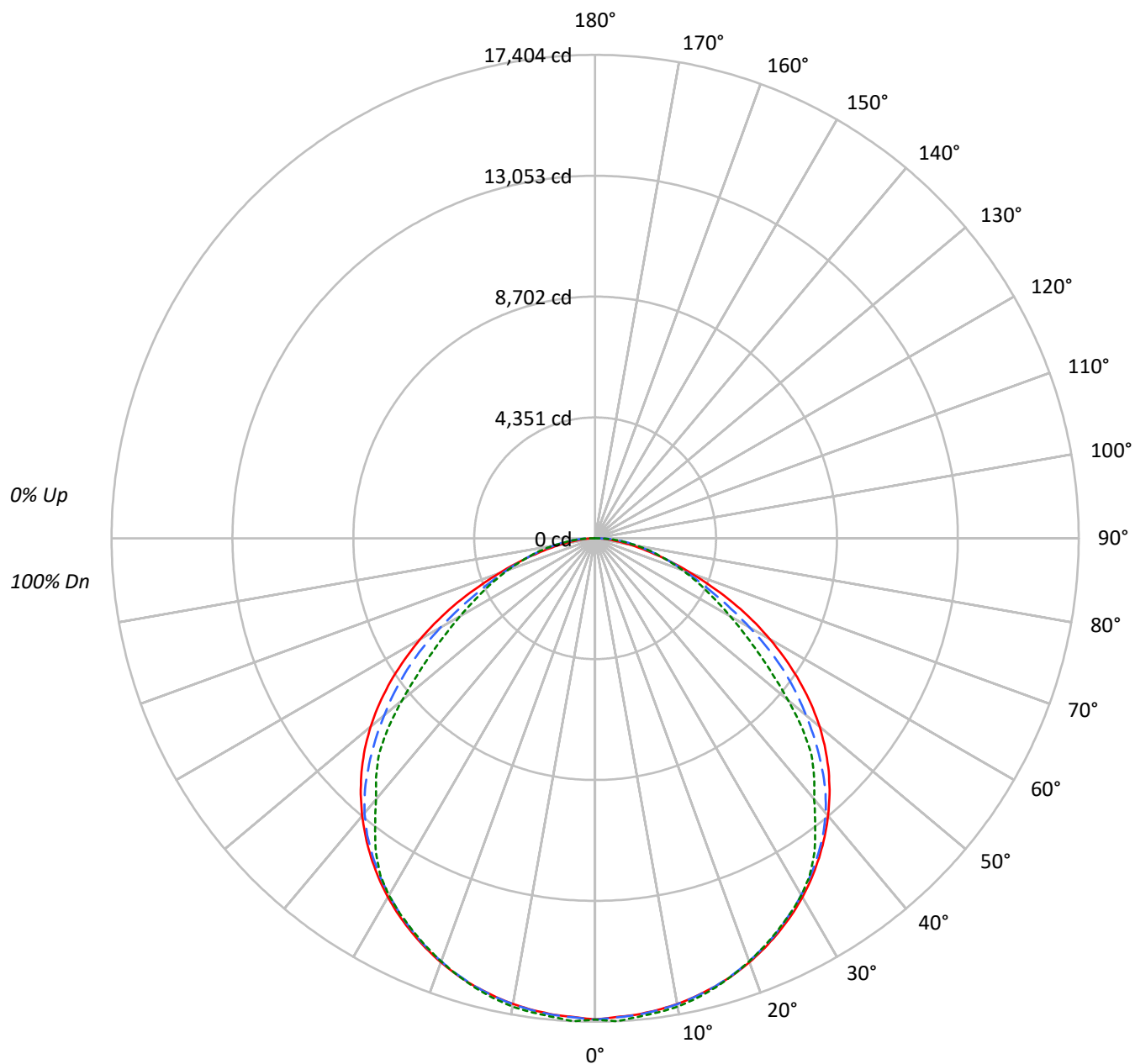
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27973	27973	27973
5°	27898	27918	28043
10°	27913	27927	28074
15°	27917	27913	27979
20°	27910	27846	27852
25°	27867	27763	27730
30°	27822	27655	27671
35°	27692	27520	27130
40°	27494	27214	25842
45°	27145	26276	25127
50°	26492	24878	22757
55°	25286	23267	20123
60°	23466	20759	18147
65°	20858	17974	16687
70°	17310	16063	15729
75°	14000	14701	14883
80°	11120	14060	14002
85°	8707	15104	14409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1643.0	3.5
10°-20°	4726.0	10.2
20°-30°	7206.3	15.5
30°-40°	8718.6	18.7
40°-50°	8831.1	19.0
50°-60°	7299.1	15.7
60°-70°	4820.9	10.4
70°-80°	2513.9	5.4
80°-90°	788.1	1.7
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°	13575.3	29.2
0°-40°	22293.9	47.9
0°-60°	38424.2	82.5
0°-90°	46547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	46547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17325	17325	17325	17325	17325	
5°	17213	17317	17225	17300	17302	###
15°	16701	16786	16699	16751	16739	4716
25°	15642	15705	15584	15624	15566	7213
35°	14049	14068	13962	13943	13764	8788
45°	11888	11857	11508	11150	11004	9154
55°	8983	8850	8265	7462	7148	8006
65°	5460	5301	4705	4399	4368	5392
75°	2244	2284	2356	2388	2386	2445
85°	470	605	815	809	778	571
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17325.0	17325.0	17325.0	17325.0	17325.0
2.5°	17252.3	17354.2	17268.8	17343.7	17404.0
5°	17212.7	17316.8	17225.2	17300.1	17302.2
7.5°	17135.9	17239.8	17146.1	17221.0	17218.9
10°	17025.5	17123.4	17033.8	17123.4	17123.4
12.5°	16875.9	16971.4	16884.2	16967.3	16954.8
15°	16701.2	16786.3	16699.1	16751.1	16738.6
17.5°	16495.2	16572.2	16474.4	16518.0	16493.1
20°	16243.6	16314.3	16206.2	16262.3	16210.2
22.5°	15960.6	16027.2	15917.0	15958.7	15900.3
25°	15642.5	15704.9	15584.3	15623.8	15565.5
27.5°	15299.3	15355.4	15220.2	15268.2	15222.3
30°	14922.8	14949.9	14833.5	14895.9	14841.8
32.5°	14502.7	14519.4	14417.4	14473.5	14382.1
35°	14049.2	14068.0	13962.0	13943.2	13764.4
37.5°	13564.7	13573.0	13473.3	13304.7	13009.4
40°	13044.8	13040.7	12911.7	12522.7	12260.6
42.5°	12489.3	12487.4	12260.6	11817.6	11667.9
45°	11888.3	11857.2	11507.7	11150.0	11004.3
47.5°	11243.7	11210.3	10721.6	10436.7	10105.9
50°	10546.9	10488.7	9904.1	9515.2	9059.8
52.5°	9796.1	9706.5	9111.8	8483.6	8053.1
55°	8982.8	8849.7	8265.4	7462.5	7148.5
57.5°	8136.4	7938.8	7370.9	6589.0	6333.1
60°	7267.0	7046.4	6428.7	5786.2	5619.7
62.5°	6372.6	6154.3	5524.1	5039.5	4947.9
65°	5459.6	5301.4	4704.6	4398.9	4367.8
67.5°	4523.6	4467.5	4012.0	3856.1	3843.5
70°	3666.8	3656.4	3402.6	3323.5	3331.9
72.5°	2930.6	2918.0	2880.7	2841.0	2843.1
75°	2244.2	2283.6	2356.5	2387.6	2385.7
77.5°	1674.3	1755.5	1909.3	1971.6	1961.2
80°	1196.0	1316.6	1512.1	1570.3	1505.9
82.5°	796.5	923.4	1154.2	1162.6	1110.6
85°	470.0	605.2	815.3	809.1	777.8
87.5°	232.9	363.9	488.7	467.9	447.2
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)