

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: P731071

Luminaire Tested: **HBLED-LD5-48HE-W-AI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-AI-UNV-L850
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43011.0 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

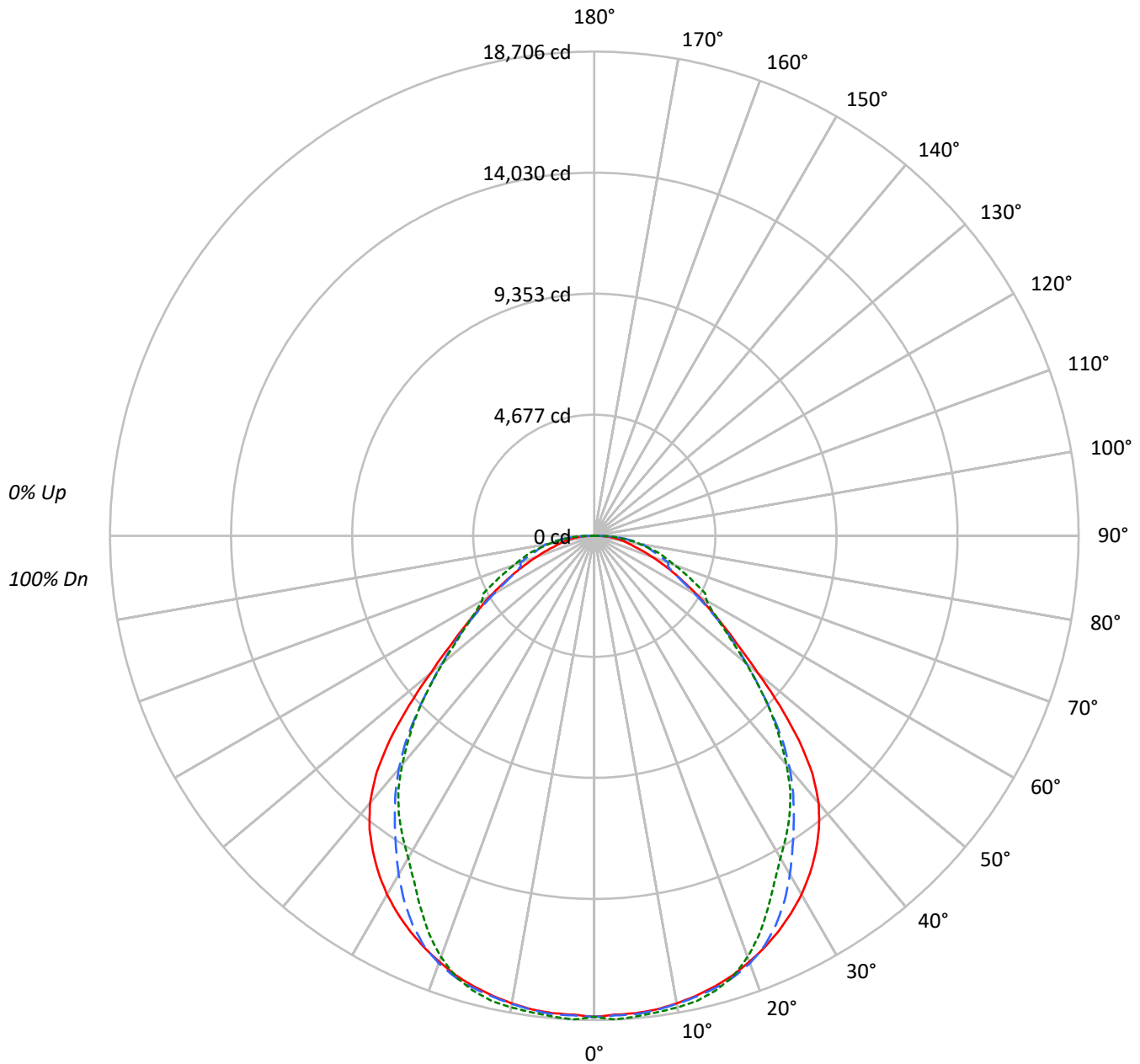
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30002	30002	30002
5°	30001	30066	30212
10°	30075	30113	30334
15°	30122	30234	30382
20°	30091	30203	29755
25°	30015	29565	28280
30°	29838	28171	26798
35°	29389	26477	25926
40°	28406	24756	24348
45°	25532	22106	22024
50°	20708	19255	19123
55°	17195	16875	16869
60°	14887	14453	16158
65°	12903	12822	16287
70°	11125	14383	15526
75°	9976	14742	16185
80°	10370	17354	16238
85°	11771	19998	18555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1769.3	4.1
10°-20°	5109.7	11.9
20°-30°	7589.1	17.6
30°-40°	8615.7	20.0
40°-50°	7702.1	17.9
50°-60°	5325.3	12.4
60°-70°	3513.9	8.2
70°-80°	2370.7	5.5
80°-90°	1015.4	2.4
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°	14468.1	33.6
0°-40°	23083.8	53.7
0°-60°	36111.1	84.0
0°-90°	43011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18582	18582	18582	18582	18582	
5°	18510	18624	18550	18626	18641	###
15°	18020	18106	18088	18188	18176	5087
25°	16848	17008	16596	16101	15874	7763
35°	14910	14597	13433	13237	13153	9298
45°	11182	10235	9681	9755	9646	8503
55°	6108	5576	5995	5911	5993	5548
65°	3377	2998	3356	3924	4263	3370
75°	1599	2012	2363	2525	2594	1746
85°	635	884	1080	1086	1002	663
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18582.1	18582.1	18582.1	18582.1	18582.1
2.5°	18519.0	18634.7	18548.4	18628.4	18706.2
5°	18510.5	18624.2	18550.5	18626.2	18641.0
7.5°	18457.9	18563.1	18476.8	18550.5	18567.3
10°	18344.2	18468.5	18367.4	18481.0	18502.2
12.5°	18197.0	18323.3	18234.8	18390.5	18399.0
15°	18020.2	18106.5	18087.6	18188.5	18175.9
17.5°	17797.1	17896.2	17881.4	17906.6	17847.7
20°	17513.2	17624.6	17578.3	17462.6	17317.5
22.5°	17208.0	17342.6	17159.7	16867.2	16663.0
25°	16848.1	17008.1	16595.8	16101.3	15874.0
27.5°	16450.5	16593.6	15907.6	15301.7	15066.0
30°	16004.5	16065.4	15110.1	14533.6	14373.6
32.5°	15488.9	15400.6	14257.9	13877.1	13784.5
35°	14910.3	14596.7	13433.1	13237.4	13153.2
37.5°	14257.9	13683.6	12618.9	12528.4	12439.9
40°	13477.4	12629.2	11745.6	11686.7	11551.9
42.5°	12469.5	11482.5	10775.5	10706.1	10586.1
45°	11181.7	10234.7	9681.3	9755.0	9645.6
47.5°	9700.2	8982.8	8631.4	8833.4	8631.4
50°	8244.1	7762.4	7665.6	7848.7	7613.0
52.5°	7051.1	6617.7	6817.7	6849.1	6708.2
55°	6108.4	5576.1	5994.9	5910.7	5992.7
57.5°	5287.9	4692.3	5207.9	5111.1	5393.0
60°	4610.3	3941.2	4475.7	4454.6	5003.7
62.5°	3945.4	3411.0	3840.1	4149.5	4824.8
65°	3377.3	2998.5	3356.1	3924.3	4263.1
67.5°	2832.2	2689.1	3069.9	3385.6	3756.1
70°	2356.6	2430.3	3046.8	2987.9	3288.8
72.5°	1956.9	2207.4	2689.1	2699.7	2912.2
75°	1599.2	2011.7	2363.1	2525.1	2594.5
77.5°	1329.8	1824.3	2133.7	2190.5	2123.1
80°	1115.3	1607.5	1866.4	1841.2	1746.4
82.5°	900.5	1218.4	1470.9	1494.1	1382.4
85°	635.4	883.8	1079.5	1085.8	1001.6
87.5°	340.8	545.0	654.5	673.3	622.8
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)