

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: P731105

Luminaire Tested: **HBLED-LD5-48SE-W-AI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731105
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-LD5-48SE-W-AI-UNV-L835
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40527.0 lumens
Efficiency: N/A
Efficacy: 142.0 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

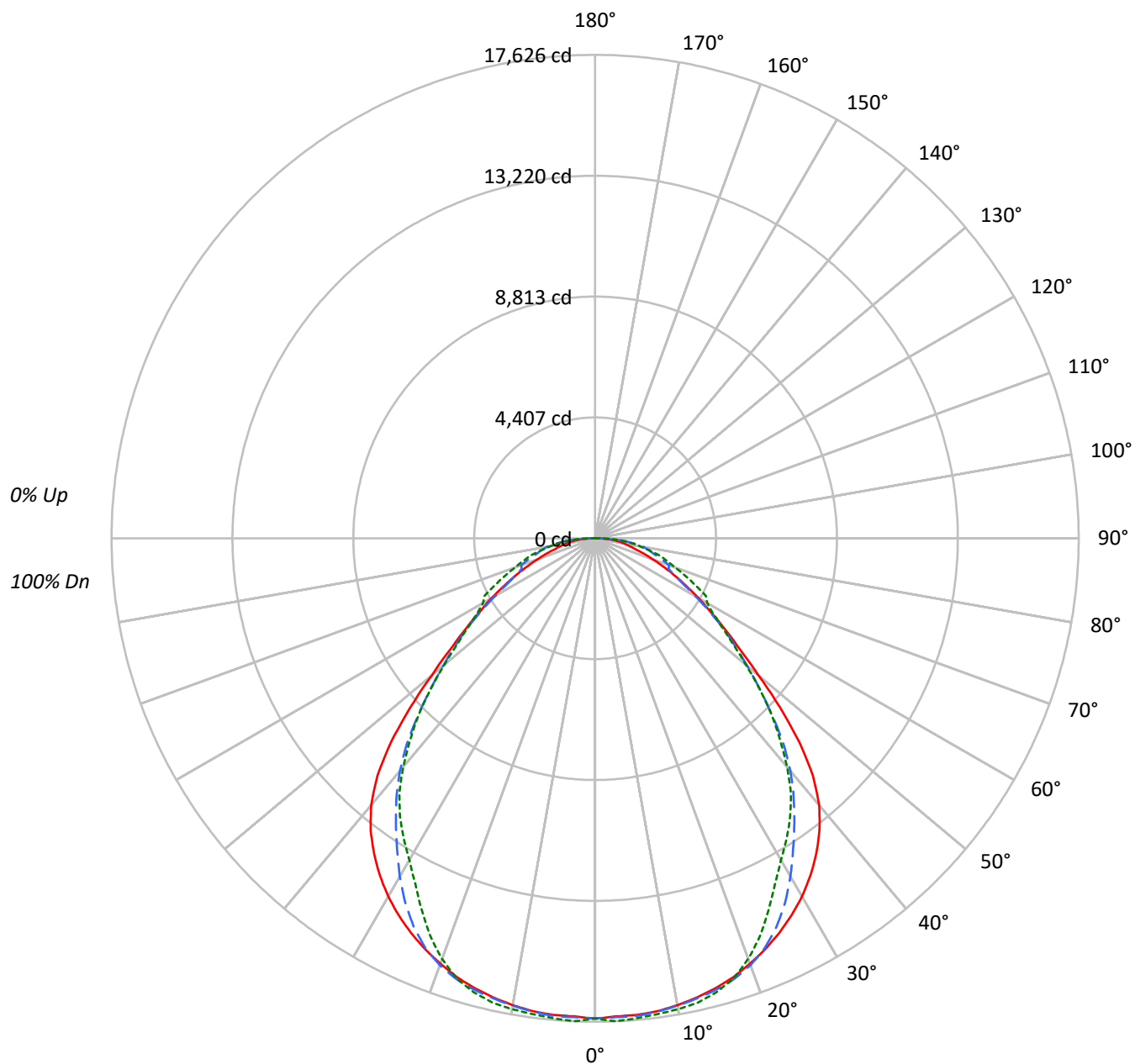
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28270	28270	28270
5°	28268	28329	28468
10°	28338	28374	28582
15°	28382	28488	28627
20°	28353	28459	28037
25°	28281	27858	26646
30°	28115	26544	25250
35°	27692	24948	24428
40°	26766	23326	22942
45°	24057	20829	20752
50°	19512	18143	18018
55°	16202	15901	15895
60°	14028	13618	15225
65°	12157	12081	15346
70°	10482	13552	14629
75°	9400	13890	15251
80°	9771	16352	15300
85°	11091	18844	17482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1667.1	4.1
10°-20°	4814.6	11.9
20°-30°	7150.8	17.6
30°-40°	8118.1	20.0
40°-50°	7257.3	17.9
50°-60°	5017.7	12.4
60°-70°	3311.0	8.2
70°-80°	2233.7	5.5
80°-90°	956.7	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°	13632.5	33.6
0°-40°	21750.6	53.7
0°-60°	34025.6	84.0
0°-90°	40527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	40527.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17509	17509	17509	17509	17509	
5°	17441	17549	17479	17550	17564	###
15°	16980	17061	17043	17138	17126	4793
25°	15875	16026	15637	15171	14957	7315
35°	14049	13754	12657	12473	12394	8761
45°	10536	9644	9122	9192	9088	8012
55°	5756	5254	5649	5569	5647	5228
65°	3182	2825	3162	3698	4017	3176
75°	1507	1896	2227	2379	2445	1646
85°	599	833	1017	1023	944	624
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17509.0	17509.0	17509.0	17509.0	17509.0
2.5°	17449.5	17558.5	17477.2	17552.6	17625.8
5°	17441.4	17548.6	17479.1	17550.5	17564.4
7.5°	17391.9	17491.0	17409.7	17479.1	17495.0
10°	17284.8	17401.9	17306.6	17413.7	17433.6
12.5°	17146.1	17265.1	17181.7	17328.4	17336.4
15°	16979.5	17060.8	17043.0	17138.1	17126.2
17.5°	16769.3	16862.7	16848.7	16872.4	16816.9
20°	16501.7	16606.7	16563.1	16454.1	16317.3
22.5°	16214.2	16341.0	16168.7	15893.1	15700.7
25°	15875.1	16025.8	15637.4	15171.4	14957.2
27.5°	15500.4	15635.3	14988.9	14418.0	14195.9
30°	15080.2	15137.6	14237.4	13694.2	13543.5
32.5°	14594.3	14511.1	13434.5	13075.6	12988.4
35°	14049.2	13753.7	12657.3	12472.9	12393.6
37.5°	13434.5	12893.3	11890.1	11804.8	11721.4
40°	12699.0	11899.9	11067.3	11011.8	10884.8
42.5°	11749.3	10819.4	10153.2	10087.8	9974.7
45°	10535.9	9643.6	9122.2	9191.6	9088.5
47.5°	9140.0	8464.0	8132.9	8323.3	8132.9
50°	7768.0	7314.1	7222.9	7395.4	7173.3
52.5°	6643.9	6235.5	6423.9	6453.6	6320.8
55°	5755.6	5254.1	5648.7	5569.3	5646.6
57.5°	4982.5	4421.3	4907.1	4815.9	5081.6
60°	4344.0	3713.6	4217.2	4197.3	4714.7
62.5°	3717.6	3214.0	3618.3	3909.8	4546.2
65°	3182.2	2825.3	3162.3	3697.7	4016.9
67.5°	2668.6	2533.8	2892.6	3190.1	3539.1
70°	2220.5	2289.9	2870.8	2815.4	3098.8
72.5°	1843.9	2079.9	2533.8	2543.7	2744.0
75°	1506.9	1895.5	2226.6	2379.2	2444.7
77.5°	1253.0	1719.0	2010.5	2064.0	2000.5
80°	1050.9	1514.7	1758.6	1734.8	1645.5
82.5°	848.5	1148.0	1386.0	1407.8	1302.6
85°	598.7	832.8	1017.2	1023.1	943.7
87.5°	321.1	513.6	616.7	634.5	586.8
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)