

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: P731088

Luminaire Tested: **HBLED-LD5-48HE-W-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-W-UNV-L840
Description: 48000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47827.0 lumens
Efficiency: N/A
Efficacy: 181.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

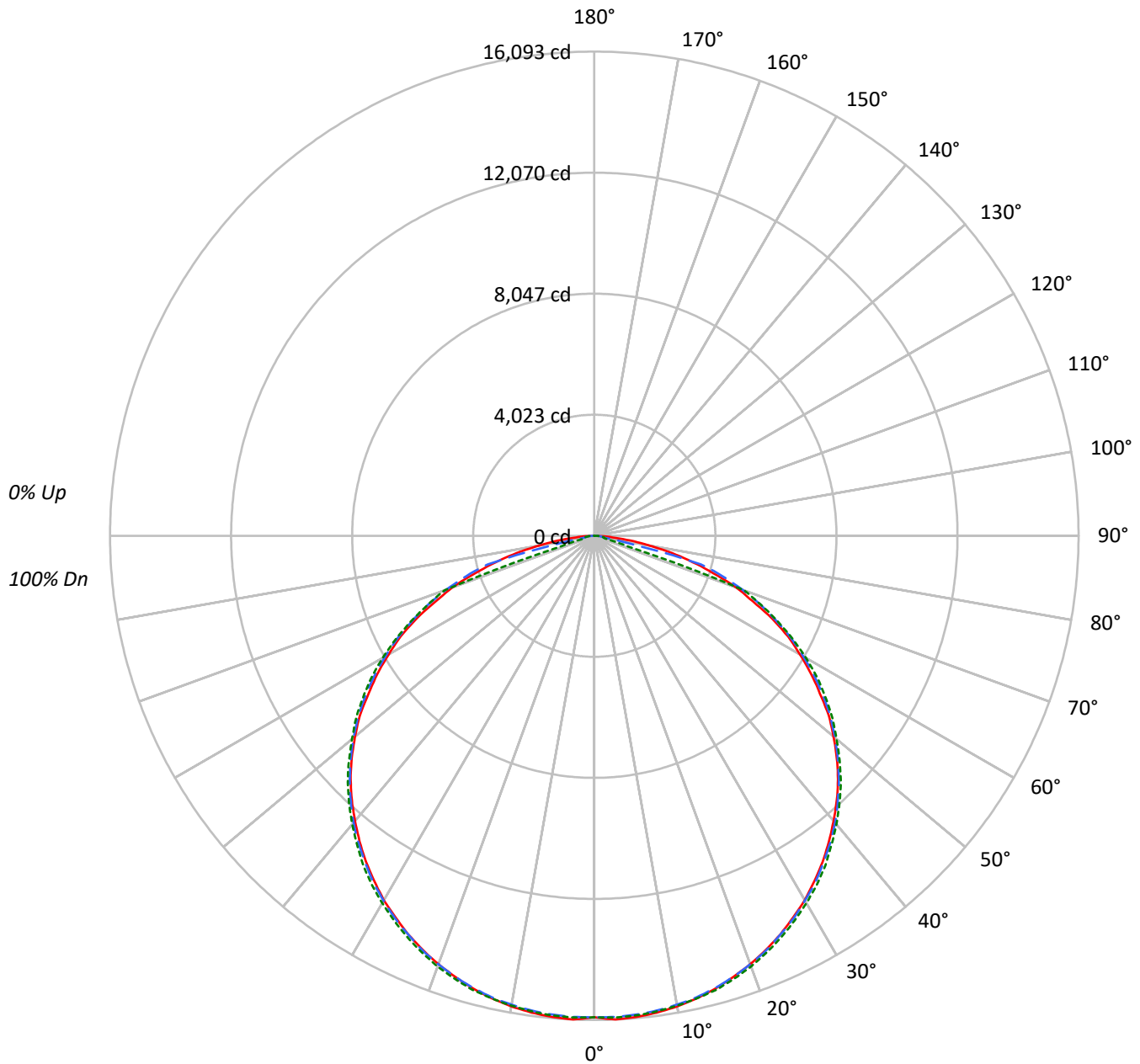
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25840	25840	25840
5°	26026	25893	25939
10°	26040	25947	25999
15°	26037	26001	26120
20°	26035	26041	26176
25°	26047	26060	26219
30°	26076	26109	26282
35°	26071	26155	26373
40°	26075	26240	26383
45°	26148	26246	26457
50°	26069	26221	26391
55°	25782	26144	26424
60°	25489	25903	26226
65°	24926	25443	25634
70°	23664	24673	24976
75°	21107	22886	2758
80°	16973	2851	3016
85°	11295	3700	3764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1520.1	3.2
10°-20°	4392.2	9.2
20°-30°	6748.4	14.1
30°-40°	8307.5	17.4
40°-50°	8856.6	18.5
50°-60°	8279.1	17.3
60°-70°	6554.0	13.7
70°-80°	2788.4	5.8
80°-90°	380.8	0.8
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°	12660.6	26.5
0°-40°	20968.1	43.8
0°-60°	38103.8	79.7
0°-90°	47827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16004	16004	16004	16004	16004	
5°	16058	15986	15976	15912	16004	###
15°	15576	15548	15555	15512	15626	4398
25°	14621	14603	14628	14621	14717	6741
35°	13227	13206	13270	13316	13380	8276
45°	11452	11387	11494	11541	11587	8824
55°	9159	9188	9287	9320	9387	8202
65°	6524	6581	6660	6710	6710	6418
75°	3383	3530	3669	599	442	3579
85°	610	182	200	207	203	795
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16004.3	16004.3	16004.3	16004.3	16004.3
2.5°	16093.4	16018.5	16004.3	15940.1	16025.7
5°	16057.8	15986.5	15975.8	15911.6	16004.3
7.5°	15982.9	15925.8	15918.7	15851.0	15943.7
10°	15883.1	15829.6	15826.0	15765.4	15858.1
12.5°	15747.6	15701.2	15715.5	15654.9	15747.6
15°	15576.5	15547.9	15555.1	15512.3	15626.4
17.5°	15369.7	15355.4	15369.7	15337.6	15441.0
20°	15152.2	15134.4	15155.8	15137.9	15234.2
22.5°	14899.1	14877.7	14920.5	14895.5	14984.6
25°	14621.0	14603.1	14628.1	14621.0	14717.2
27.5°	14303.7	14285.8	14339.3	14342.9	14417.8
30°	13986.4	13961.4	14004.2	14022.0	14096.9
32.5°	13608.5	13601.3	13665.5	13679.8	13758.2
35°	13227.0	13205.6	13269.8	13316.1	13380.3
37.5°	12809.8	12806.3	12874.0	12913.2	12945.3
40°	12371.3	12353.5	12449.8	12489.0	12517.5
42.5°	11925.7	11886.5	11979.1	12029.1	12061.1
45°	11451.5	11387.3	11494.3	11540.6	11587.0
47.5°	10931.0	10873.9	10977.3	11027.2	11059.3
50°	10378.4	10324.9	10439.0	10481.8	10506.7
52.5°	9822.2	9768.7	9889.9	9925.6	9986.2
55°	9159.1	9187.6	9287.4	9319.5	9387.2
57.5°	8545.8	8570.8	8667.1	8706.3	8784.7
60°	7893.4	7932.6	8021.7	8061.0	8121.6
62.5°	7262.4	7265.9	7372.9	7390.7	7437.1
65°	6524.4	6581.4	6659.8	6709.7	6709.7
67.5°	5700.8	5839.8	5975.3	5964.6	5993.1
70°	5012.7	5066.2	5226.6	5251.6	5290.8
72.5°	4149.9	4289.0	4467.2	3337.0	1133.7
75°	3383.4	3529.6	3668.6	599.0	442.1
77.5°	2627.6	2741.7	1219.3	342.3	335.1
80°	1825.4	2007.2	306.6	313.7	324.4
82.5°	1201.5	980.4	253.1	278.1	281.7
85°	609.7	181.8	199.7	206.8	203.2
87.5°	199.7	110.5	114.1	117.7	121.2
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)