

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: P731070

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731070
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-L840
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: 42183.0 lumens
Efficiency: N/A
Efficacy: 160.4 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

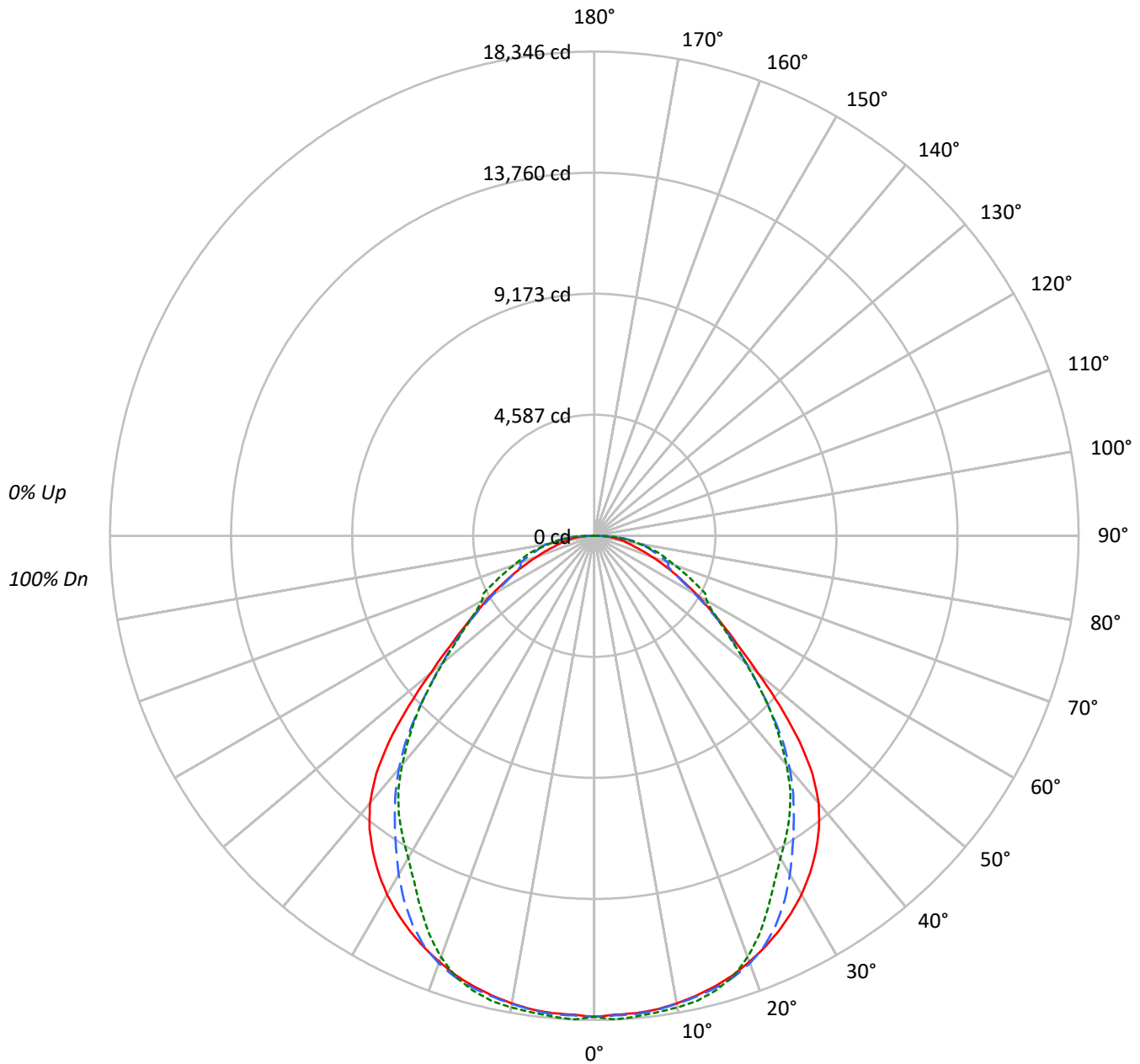
Input Watts (W): 263
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29425	29425	29425
5°	29423	29487	29631
10°	29496	29534	29750
15°	29542	29652	29797
20°	29512	29622	29182
25°	29437	28996	27735
30°	29264	27628	26282
35°	28823	25968	25427
40°	27859	24280	23879
45°	25040	21681	21600
50°	20309	18884	18754
55°	16864	16550	16544
60°	14601	14174	15847
65°	12654	12575	15974
70°	10911	14106	15226
75°	9784	14458	15874
80°	10170	17019	15926
85°	11543	19615	18197



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1735.2	4.1
10°-20°	5011.4	11.9
20°-30°	7443.0	17.6
30°-40°	8449.8	20.0
40°-50°	7553.8	17.9
50°-60°	5222.7	12.4
60°-70°	3446.2	8.2
70°-80°	2325.0	5.5
80°-90°	995.8	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°	14189.5	33.6
0°-40°	22639.4	53.7
0°-60°	35415.9	84.0
0°-90°	42183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18224	18224	18224	18224	18224	
5°	18154	18266	18193	18268	18282	###
15°	17673	17758	17739	17838	17826	4989
25°	16524	16681	16276	15791	15568	7614
35°	14623	14316	13174	12983	12900	9119
45°	10966	10038	9495	9567	9460	8340
55°	5991	5469	5880	5797	5877	5441
65°	3312	2941	3292	3849	4181	3305
75°	1568	1973	2318	2476	2545	1713
85°	623	867	1059	1065	982	650
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18224.4	18224.4	18224.4	18224.4	18224.4
2.5°	18162.5	18276.0	18191.4	18269.8	18346.1
5°	18154.1	18265.6	18193.4	18267.6	18282.1
7.5°	18102.6	18205.7	18121.1	18193.4	18209.9
10°	17991.1	18112.9	18013.8	18125.3	18146.0
12.5°	17846.7	17970.6	17883.8	18036.5	18044.8
15°	17673.3	17757.9	17739.4	17838.4	17826.0
17.5°	17454.5	17551.7	17537.2	17561.8	17504.1
20°	17176.0	17285.3	17239.9	17126.4	16984.1
22.5°	16876.8	17008.8	16829.4	16542.5	16342.2
25°	16523.8	16680.7	16276.3	15791.3	15568.4
27.5°	16133.8	16274.1	15601.4	15007.1	14776.0
30°	15696.4	15756.1	14819.2	14253.8	14096.9
32.5°	15190.7	15104.1	13983.4	13609.9	13519.1
35°	14623.3	14315.7	13174.5	12982.6	12900.0
37.5°	13983.4	13420.2	12376.0	12287.2	12200.4
40°	13217.9	12386.1	11519.5	11461.8	11329.6
42.5°	12229.4	11261.5	10568.0	10500.0	10382.3
45°	10966.4	10037.7	9495.0	9567.2	9459.9
47.5°	9513.5	8809.9	8465.3	8663.4	8465.3
50°	8085.4	7613.0	7518.0	7697.6	7466.4
52.5°	6915.4	6490.3	6686.4	6717.3	6579.1
55°	5990.8	5468.8	5879.5	5796.9	5877.3
57.5°	5186.1	4601.9	5107.6	5012.7	5289.2
60°	4521.5	3865.3	4389.5	4368.8	4907.3
62.5°	3869.5	3345.3	3766.2	4069.6	4731.9
65°	3312.2	2940.7	3291.5	3848.8	4181.1
67.5°	2777.7	2637.3	3010.8	3320.4	3683.7
70°	2311.2	2383.5	2988.1	2930.4	3225.4
72.5°	1919.2	2164.9	2637.3	2647.7	2856.1
75°	1568.4	1973.0	2317.6	2476.5	2544.6
77.5°	1304.2	1789.2	2092.6	2148.4	2082.3
80°	1093.8	1576.6	1830.4	1805.7	1712.8
82.5°	883.2	1194.9	1442.6	1465.3	1355.8
85°	623.1	866.8	1058.8	1064.9	982.3
87.5°	334.3	534.6	641.9	660.4	610.8
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)