

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: P731112

Luminaire Tested: **HBLED-LD5-48SE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731112
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-LD5-48SE-W-CLI-UNV-L840
Description: 48000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43917.0 lumens
Efficiency: N/A
Efficacy: 153.8 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

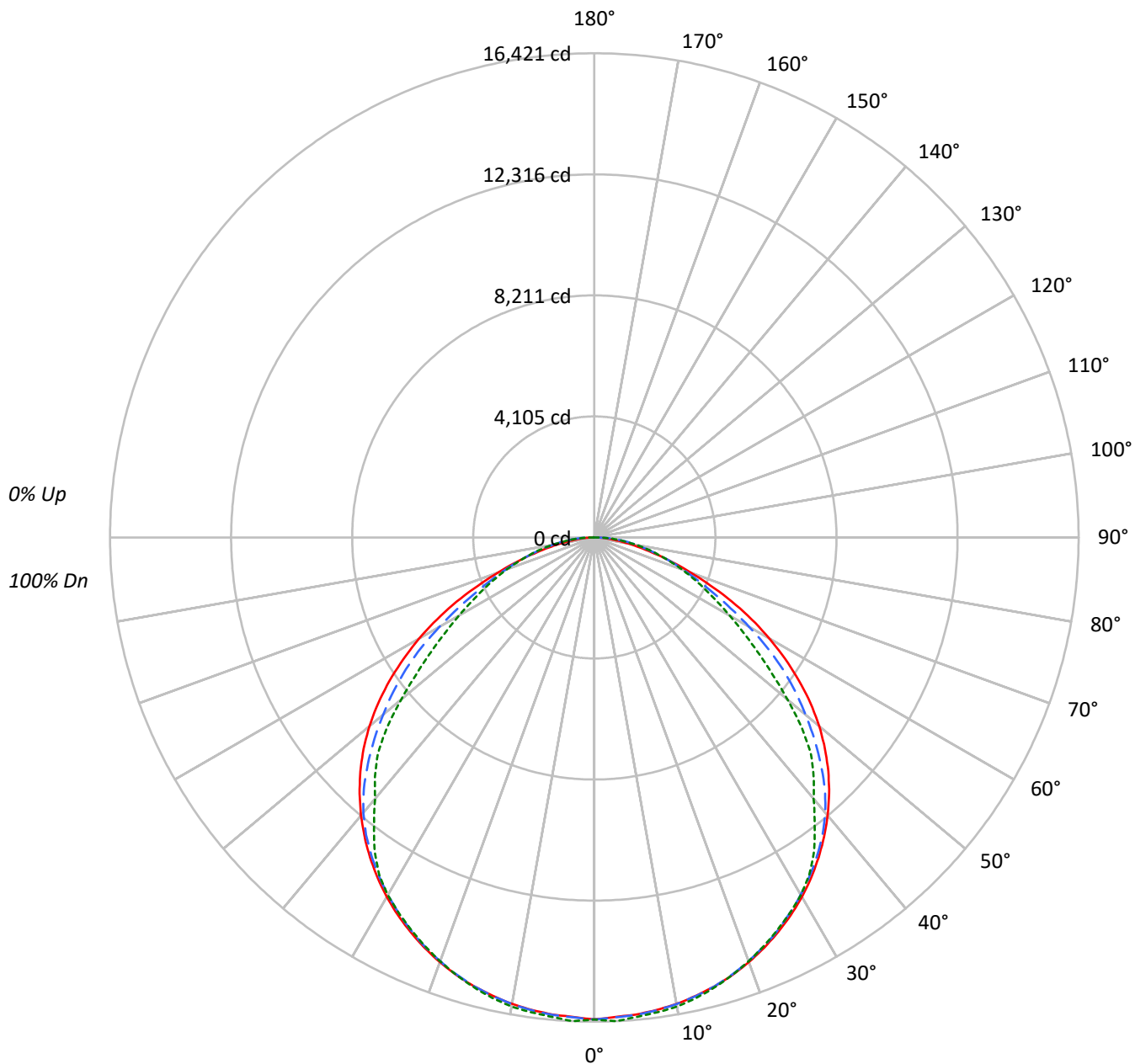
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	26392	26392	26392
5°	26321	26340	26458
10°	26336	26349	26488
15°	26339	26336	26398
20°	26333	26272	26279
25°	26293	26195	26163
30°	26250	26093	26107
35°	26127	25965	25597
40°	25941	25676	24382
45°	25612	24792	23707
50°	24995	23472	21471
55°	23858	21952	18986
60°	22141	19587	17121
65°	19679	16958	15744
70°	16332	15155	14840
75°	13209	13870	14042
80°	10492	13266	13211
85°	8214	14252	13594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1550.2	3.5
10°-20°	4459.0	10.2
20°-30°	6799.1	15.5
30°-40°	8225.9	18.7
40°-50°	8332.2	19.0
50°-60°	6886.7	15.7
60°-70°	4548.6	10.4
70°-80°	2371.8	5.4
80°-90°	743.5	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°	12808.3	29.2
0°-40°	21034.2	47.9
0°-60°	36253.1	82.5
0°-90°	43917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	43917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16346	16346	16346	16346	16346	
5°	16240	16338	16252	16323	16325	###
15°	15758	15838	15756	15805	15793	4450
25°	14759	14818	14704	14741	14686	6805
35°	13255	13273	13173	13155	12987	8291
45°	11217	11187	10858	10520	10383	8637
55°	8475	8350	7798	7041	6745	7554
65°	5151	5002	4439	4150	4121	5088
75°	2117	2155	2223	2253	2251	2307
85°	443	571	769	763	734	538
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16346.1	16346.1	16346.1	16346.1	16346.1
2.5°	16277.5	16373.6	16293.1	16363.8	16420.7
5°	16240.1	16338.4	16251.9	16322.6	16324.6
7.5°	16167.7	16265.7	16177.3	16248.0	16246.0
10°	16063.5	16155.9	16071.4	16155.9	16155.9
12.5°	15922.3	16012.5	15930.2	16008.6	15996.8
15°	15757.5	15837.9	15755.6	15804.6	15792.8
17.5°	15563.2	15635.9	15543.5	15584.7	15561.2
20°	15325.8	15392.5	15290.5	15343.5	15294.3
22.5°	15058.8	15121.6	15017.6	15057.0	15001.9
25°	14758.7	14817.6	14703.8	14741.0	14686.1
27.5°	14434.8	14487.8	14360.2	14405.5	14362.2
30°	14079.6	14105.2	13995.4	14054.2	14003.2
32.5°	13683.3	13699.0	13602.8	13655.7	13569.5
35°	13255.4	13273.2	13173.1	13155.4	12986.7
37.5°	12798.2	12806.1	12712.0	12552.9	12274.3
40°	12307.8	12303.8	12182.2	11815.2	11567.9
42.5°	11783.7	11781.9	11567.9	11149.9	11008.7
45°	11216.6	11187.3	10857.5	10520.0	10382.6
47.5°	10608.4	10576.9	10115.8	9847.0	9534.9
50°	9951.0	9896.0	9344.5	8977.5	8547.9
52.5°	9242.6	9158.1	8596.9	8004.3	7598.1
55°	8475.3	8349.6	7798.3	7040.9	6744.6
57.5°	7676.7	7490.2	6954.5	6216.7	5975.3
60°	6856.4	6648.3	6065.5	5459.3	5302.1
62.5°	6012.5	5806.6	5212.0	4754.8	4668.3
65°	5151.1	5001.9	4438.8	4150.3	4121.0
67.5°	4268.1	4215.1	3785.3	3638.2	3626.4
70°	3459.6	3449.8	3210.3	3135.7	3143.6
72.5°	2765.0	2753.2	2717.9	2680.5	2682.5
75°	2117.4	2154.6	2223.3	2252.7	2250.9
77.5°	1579.7	1656.3	1801.4	1860.2	1850.4
80°	1128.4	1242.2	1426.7	1481.6	1420.8
82.5°	751.5	871.3	1089.0	1096.9	1047.9
85°	443.4	571.0	769.3	763.4	733.8
87.5°	219.7	343.4	461.1	441.4	421.9
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)