

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: P731090

Luminaire Tested: **HBLED-LD5-48SE-N-CLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-N-CLI-UNV-L735
Description: 48000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42828.0 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

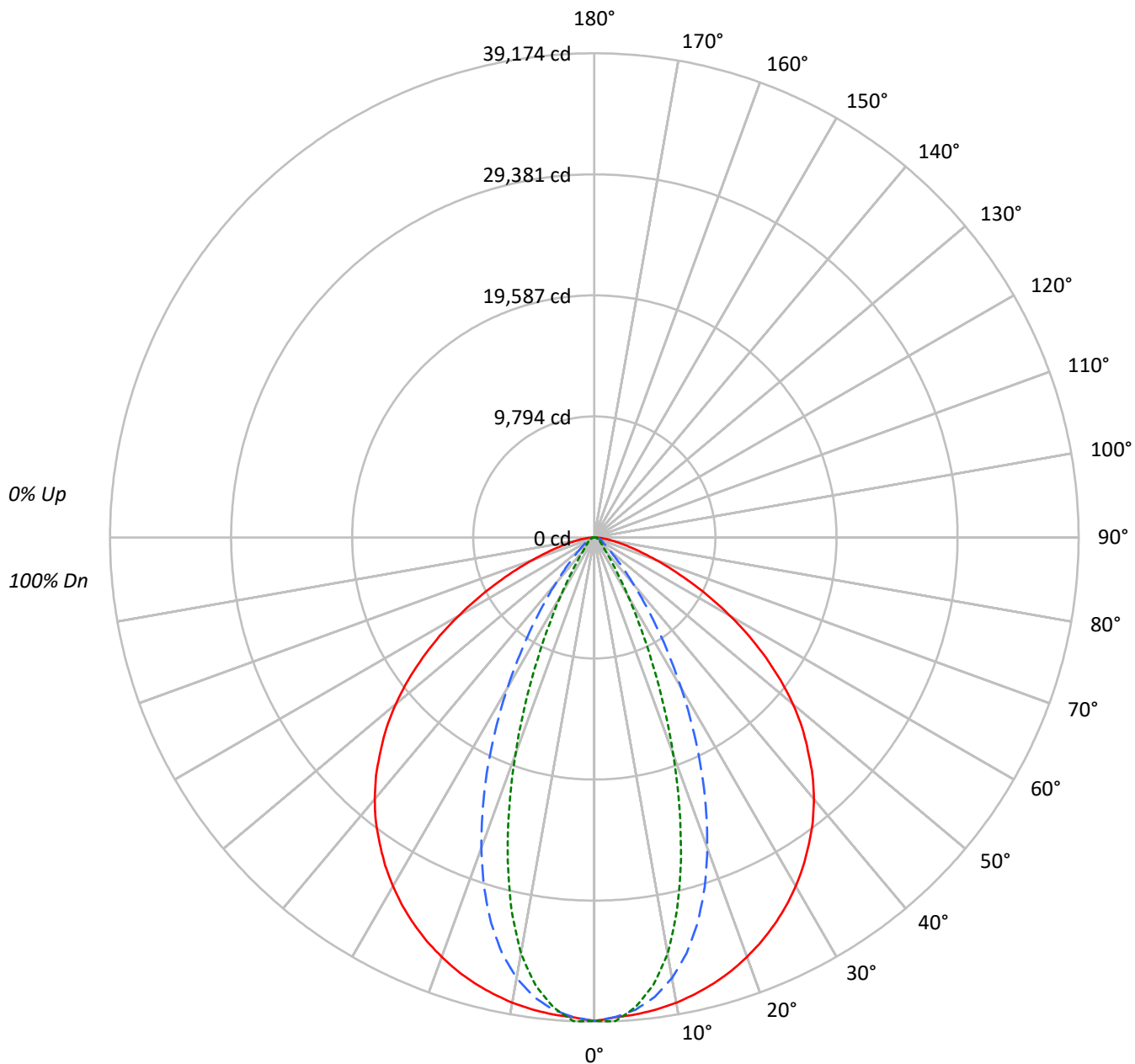
Input Watts (W): 285.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63163	63163	63163
5°	62783	62159	61832
10°	62678	59344	56000
15°	62426	53943	45226
20°	62051	45901	32054
25°	61496	36194	19367
30°	60749	26122	9953
35°	59653	17078	4971
40°	58238	10258	2901
45°	55818	6126	2169
50°	52647	4006	1822
55°	47648	3039	1589
60°	40947	2588	1450
65°	32936	2361	1370
70°	24813	2529	1362
75°	18252	2404	1400
80°	13353	2394	1533
85°	10002	2903	1984



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3602.7	8.4
10°-20°	8962.9	20.9
20°-30°	9927.8	23.2
30°-40°	7953.9	18.6
40°-50°	5678.1	13.3
50°-60°	3647.1	8.5
60°-70°	1976.5	4.6
70°-80°	844.8	2.0
80°-90°	234.3	0.5
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°	22493.4	52.5
0°-40°	30447.3	71.1
0°-60°	39772.4	92.9
0°-90°	42828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	42828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	39120	39120	39120	39120	39120	
5°	38737	38881	38352	38230	38150	###
15°	37346	36178	32271	28519	27056	10537
25°	34519	30437	20316	13237	10871	15902
35°	30264	21891	8664	3494	2522	18923
45°	24446	12637	2683	1142	950	18842
55°	16927	5650	1080	663	565	15085
65°	8621	2320	618	426	358	8633
75°	2926	849	385	268	224	3251
85°	540	224	157	130	107	659
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	39120.2	39120.2	39120.2	39120.2	39120.2
2.5°	38862.7	39105.9	38844.1	39006.8	39173.7
5°	38737.0	38881.4	38351.6	38230.0	38149.9
7.5°	38518.5	38477.3	37482.3	36837.3	36526.0
10°	38230.0	37896.3	36196.4	34778.9	34156.6
12.5°	37818.0	37129.9	34455.3	31966.2	30911.4
15°	37346.2	36177.9	32271.2	28519.2	27056.2
17.5°	36781.6	35065.2	29660.5	24822.7	22891.9
20°	36114.0	33721.8	26714.2	20895.3	18655.5
22.5°	35368.2	32172.4	23559.5	16980.3	14578.0
25°	34519.2	30437.3	20316.4	13236.6	10871.1
27.5°	33602.4	28511.0	17091.7	9890.3	7732.9
30°	32584.4	26425.7	14011.2	7131.4	5338.8
32.5°	31473.8	24208.6	11149.4	5015.2	3651.2
35°	30264.4	21890.6	8664.2	3494.5	2522.0
37.5°	29025.9	19525.1	6544.1	2470.4	1809.1
40°	27631.0	17167.8	4866.9	1809.1	1376.3
42.5°	26133.1	14856.1	3601.8	1392.8	1114.7
45°	24445.5	12636.9	2682.8	1141.6	950.0
47.5°	22809.6	10568.3	2037.8	972.5	826.2
50°	20959.3	8701.5	1594.8	849.0	725.2
52.5°	18995.6	7059.2	1293.9	748.0	638.7
55°	16926.8	5649.8	1079.6	663.4	564.6
57.5°	14831.4	4475.3	923.1	591.3	502.8
60°	12680.2	3579.0	801.5	529.5	449.1
62.5°	10580.6	2862.1	700.5	476.0	401.8
65°	8621.1	2320.0	618.1	426.5	358.5
67.5°	6809.8	1833.8	577.0	383.2	323.6
70°	5256.2	1427.9	535.8	342.0	288.5
72.5°	3982.8	1096.3	474.0	305.0	255.5
75°	2925.8	849.0	385.4	267.9	224.5
77.5°	2093.5	653.3	313.2	232.8	193.8
80°	1436.1	486.4	257.5	199.8	164.9
82.5°	933.5	344.2	208.1	164.9	135.9
85°	539.9	224.5	156.7	129.8	107.1
87.5°	232.8	123.5	107.1	96.9	82.4
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)