

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: P730791

Luminaire Tested: **HBLED-LD5-24SE-W-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730791
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-LD5-24SE-W-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25591.0 lumens
Efficiency: N/A
Efficacy: 170.6 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

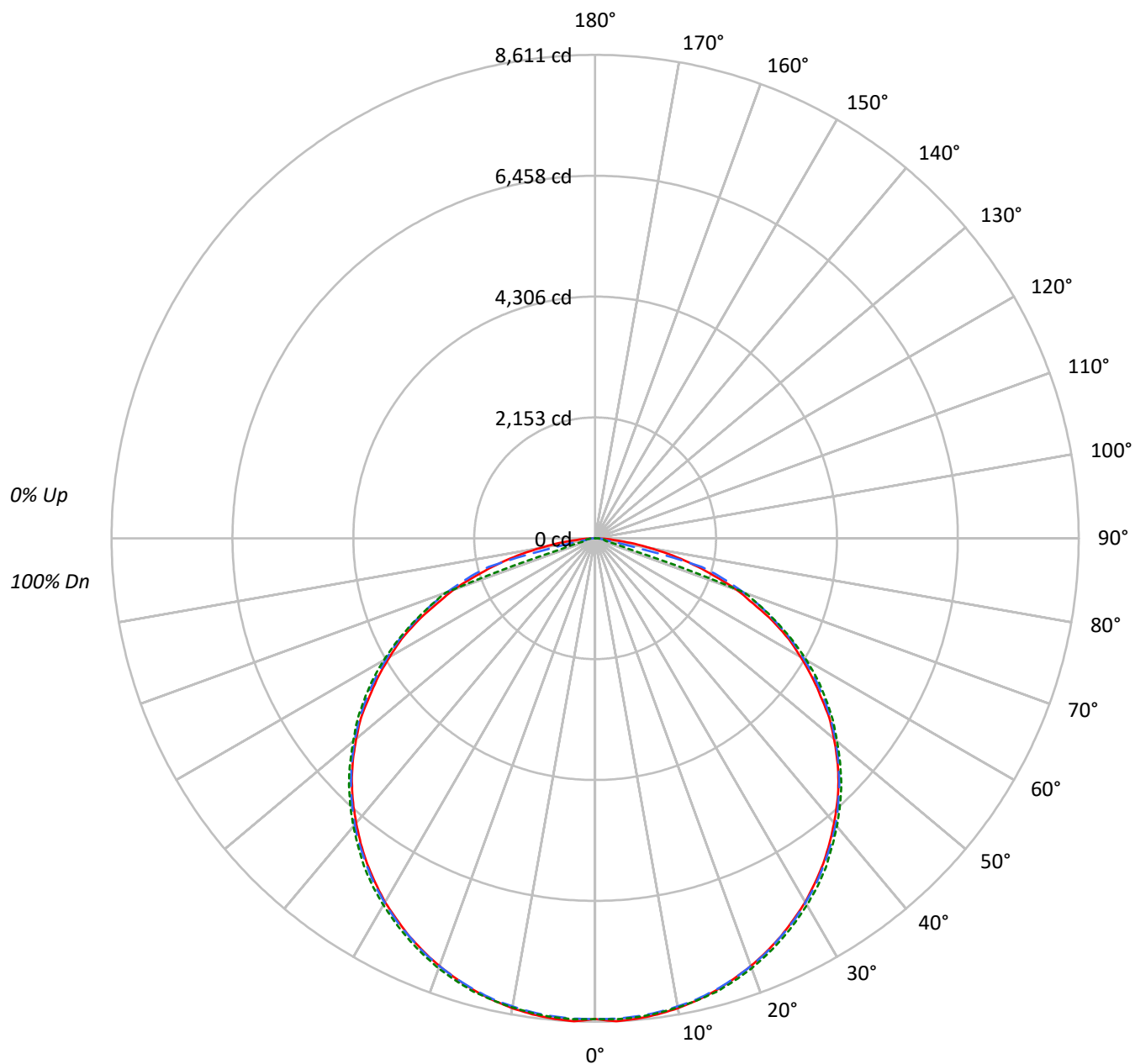
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13827	13827	13827
5°	13926	13855	13879
10°	13933	13883	13912
15°	13932	13912	13976
20°	13930	13934	14006
25°	13937	13944	14029
30°	13952	13970	14063
35°	13950	13995	14112
40°	13952	14040	14117
45°	13991	14043	14157
50°	13949	14030	14121
55°	13795	13989	14139
60°	13639	13860	14033
65°	13337	13614	13716
70°	12662	13202	13364
75°	11294	12246	1475
80°	9081	1526	1614
85°	6043	1979	2014



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.3	3.2
10°-20°	2350.2	9.2
20°-30°	3610.9	14.1
30°-40°	4445.1	17.4
40°-50°	4738.9	18.5
50°-60°	4429.9	17.3
60°-70°	3506.9	13.7
70°-80°	1492.0	5.8
80°-90°	203.7	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°	6774.4	26.5
0°-40°	11219.5	43.8
0°-60°	20388.4	79.7
0°-90°	25591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8564	8564	8564	8564	8564	
5°	8592	8554	8548	8514	8564	817
15°	8335	8319	8323	8300	8361	2353
25°	7823	7814	7827	7823	7875	3607
35°	7077	7066	7100	7125	7159	4428
45°	6127	6093	6150	6175	6200	4721
55°	4901	4916	4970	4987	5023	4388
65°	3491	3522	3564	3590	3590	3434
75°	1810	1889	1963	320	236	1915
85°	326	97	107	111	109	425
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8563.5	8563.5	8563.5	8563.5	8563.5
2.5°	8611.2	8571.1	8563.5	8529.1	8574.9
5°	8592.1	8553.9	8548.2	8513.9	8563.5
7.5°	8552.0	8521.5	8517.7	8481.5	8531.1
10°	8498.6	8470.0	8468.1	8435.7	8485.3
12.5°	8426.1	8401.3	8409.0	8376.5	8426.1
15°	8334.6	8319.3	8323.1	8300.2	8361.3
17.5°	8223.9	8216.3	8223.9	8206.7	8262.1
20°	8107.5	8098.0	8109.5	8099.9	8151.4
22.5°	7972.1	7960.7	7983.6	7970.2	8017.9
25°	7823.3	7813.8	7827.1	7823.3	7874.8
27.5°	7653.5	7644.0	7672.6	7674.5	7714.6
30°	7483.7	7470.4	7493.3	7502.8	7542.9
32.5°	7281.5	7277.7	7312.1	7319.7	7361.7
35°	7077.4	7066.0	7100.3	7125.1	7159.4
37.5°	6854.2	6852.3	6888.6	6909.5	6926.7
40°	6619.6	6610.0	6661.5	6682.5	6697.8
42.5°	6381.1	6360.1	6409.7	6436.4	6453.6
45°	6127.4	6093.1	6150.3	6175.1	6199.9
47.5°	5848.9	5818.4	5873.7	5900.4	5917.6
50°	5553.2	5524.6	5585.6	5608.5	5621.9
52.5°	5255.6	5227.0	5291.8	5310.9	5343.4
55°	4900.8	4916.0	4969.5	4986.6	5022.9
57.5°	4572.7	4586.0	4637.5	4658.5	4700.5
60°	4223.6	4244.5	4292.2	4313.2	4345.6
62.5°	3885.9	3887.8	3945.0	3954.6	3979.4
65°	3491.0	3521.5	3563.5	3590.2	3590.2
67.5°	3050.3	3124.7	3197.2	3191.5	3206.8
70°	2682.2	2710.8	2796.6	2810.0	2831.0
72.5°	2220.5	2294.9	2390.3	1785.6	606.6
75°	1810.4	1888.6	1963.0	320.5	236.5
77.5°	1405.9	1467.0	652.4	183.1	179.3
80°	976.7	1074.0	164.1	167.9	173.6
82.5°	642.9	524.6	135.4	148.8	150.7
85°	326.2	97.3	106.8	110.6	108.7
87.5°	106.8	59.1	61.0	63.0	64.9
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)