

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: P730794

Luminaire Tested: **HBLED-LD5-24SE-W-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730794
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-L840
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24428.0 lumens
Efficiency: N/A
Efficacy: 162.9 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

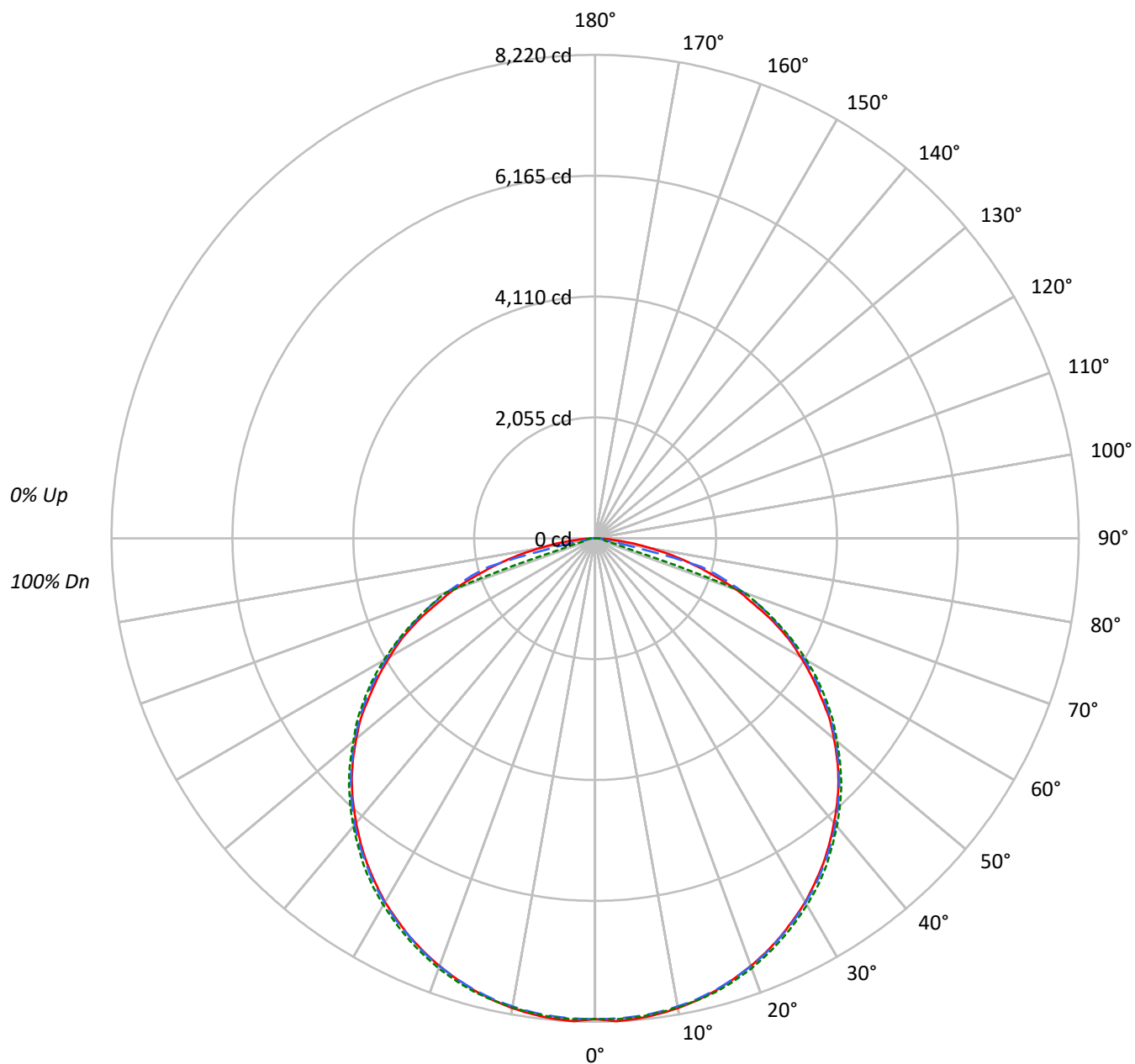
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13198	13198	13198
5°	13293	13225	13249
10°	13300	13253	13279
15°	13298	13280	13341
20°	13297	13300	13369
25°	13304	13310	13391
30°	13318	13335	13424
35°	13316	13359	13470
40°	13318	13402	13475
45°	13355	13405	13513
50°	13315	13393	13480
55°	13169	13353	13497
60°	13019	13231	13395
65°	12731	12996	13093
70°	12087	12602	12757
75°	10780	11689	1409
80°	8669	1456	1541
85°	5769	1890	1923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.4	3.2
10°-20°	2243.4	9.2
20°-30°	3446.8	14.1
30°-40°	4243.1	17.4
40°-50°	4523.6	18.5
50°-60°	4228.6	17.3
60°-70°	3347.5	13.7
70°-80°	1424.2	5.8
80°-90°	194.5	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°	6466.5	26.5
0°-40°	10709.6	43.8
0°-60°	19461.8	79.7
0°-90°	24428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8174	8174	8174	8174	8174	
5°	8202	8165	8160	8127	8174	780
15°	7956	7941	7945	7923	7981	2246
25°	7468	7459	7471	7468	7517	3443
35°	6756	6745	6778	6801	6834	4227
45°	5849	5816	5871	5894	5918	4507
55°	4678	4693	4744	4760	4795	4189
65°	3332	3362	3402	3427	3427	3278
75°	1728	1803	1874	306	226	1828
85°	311	93	102	106	104	406
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8174.3	8174.3	8174.3	8174.3	8174.3
2.5°	8219.8	8181.6	8174.3	8141.5	8185.2
5°	8201.6	8165.2	8159.7	8127.0	8174.3
7.5°	8163.4	8134.2	8130.6	8096.0	8143.4
10°	8112.4	8085.1	8083.3	8052.3	8099.6
12.5°	8043.2	8019.5	8026.8	7995.9	8043.2
15°	7955.8	7941.2	7944.9	7923.0	7981.3
17.5°	7850.2	7842.9	7850.2	7833.8	7886.6
20°	7739.1	7730.0	7740.9	7731.8	7781.0
22.5°	7609.8	7598.9	7620.7	7608.0	7653.5
25°	7467.8	7458.7	7471.4	7467.8	7516.9
27.5°	7305.7	7296.6	7323.9	7325.7	7364.0
30°	7143.6	7130.9	7152.7	7161.9	7200.1
32.5°	6950.6	6947.0	6979.8	6987.0	7027.1
35°	6755.8	6744.9	6777.6	6801.3	6834.1
37.5°	6542.7	6540.9	6575.5	6595.5	6611.9
40°	6318.7	6309.6	6358.8	6378.8	6393.4
42.5°	6091.1	6071.1	6118.4	6143.9	6160.3
45°	5848.9	5816.2	5870.8	5894.5	5918.1
47.5°	5583.1	5553.9	5606.7	5632.2	5648.6
50°	5300.8	5273.5	5331.8	5353.6	5366.4
52.5°	5016.8	4989.4	5051.4	5069.6	5100.5
55°	4678.1	4692.6	4743.6	4760.0	4794.6
57.5°	4364.9	4377.6	4426.8	4446.8	4486.9
60°	4031.6	4051.6	4097.2	4117.2	4148.2
62.5°	3709.3	3711.1	3765.8	3774.9	3798.5
65°	3332.4	3361.5	3401.6	3427.1	3427.1
67.5°	2911.7	2982.7	3051.9	3046.5	3061.0
70°	2560.3	2587.6	2669.5	2682.3	2702.3
72.5°	2119.6	2190.6	2281.7	1704.4	579.1
75°	1728.1	1802.8	1873.8	305.9	225.8
77.5°	1342.1	1400.3	622.8	174.8	171.2
80°	932.3	1025.2	156.6	160.2	165.7
82.5°	613.7	500.8	129.3	142.0	143.9
85°	311.4	92.9	102.0	105.6	103.8
87.5°	102.0	56.4	58.3	60.1	61.9
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)