

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: P730768

Luminaire Tested: **HBLED-LD5-24SE-W-CL-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CL-UNV-L750
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23639.0 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

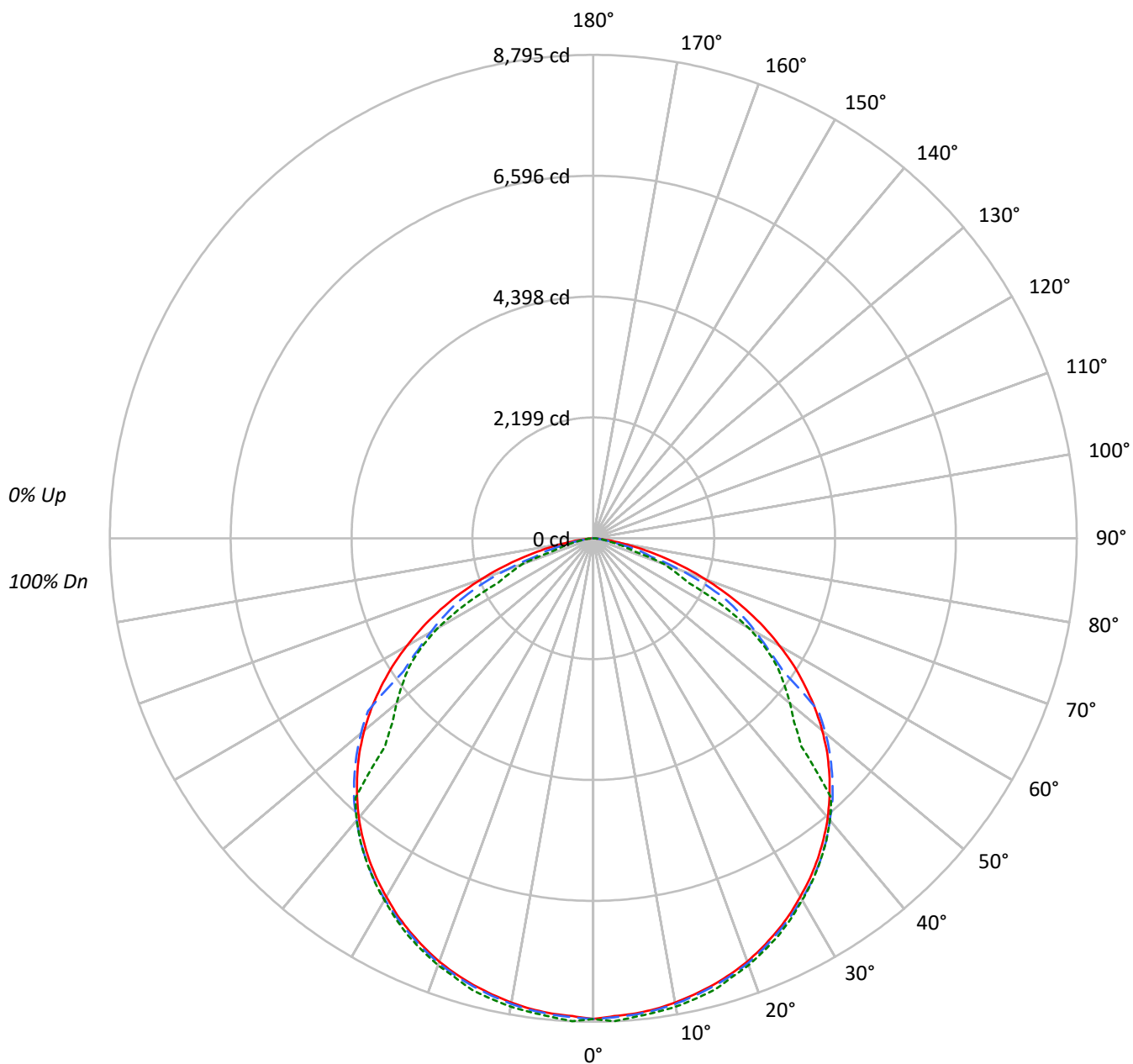
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14118	14118	14118
5°	14067	14098	14167
10°	14065	14105	14187
15°	14064	14107	14221
20°	14082	14135	14201
25°	14066	14119	14204
30°	14039	14143	14174
35°	14032	14161	14171
40°	13989	14112	14112
45°	13869	14037	12230
50°	13655	13861	11735
55°	13267	11865	11526
60°	12645	11029	10530
65°	11694	10238	7293
70°	10182	7966	6499
75°	8043	5347	3493
80°	5177	2554	2178
85°	2130	1558	1715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.4	3.5
10°-20°	2390.7	10.1
20°-30°	3665.4	15.5
30°-40°	4492.5	19.0
40°-50°	4618.6	19.5
50°-60°	3941.8	16.7
60°-70°	2606.0	11.0
70°-80°	965.5	4.1
80°-90°	129.1	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°	6885.6	29.1
0°-40°	11378.0	48.1
0°-60°	19938.4	84.3
0°-90°	23639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8744	8744	8744	8744	8744	
5°	8679	8740	8698	8732	8741	825
15°	8414	8465	8439	8503	8508	2377
25°	7896	7937	7925	7997	7973	3640
35°	7119	7168	7184	7229	7190	4453
45°	6074	6134	6147	6138	5356	4681
55°	4713	4799	4215	4092	4095	4205
65°	3061	3086	2680	2204	1909	3018
75°	1289	1130	857	576	560	1383
85°	115	82	84	92	93	190
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8744.0	8744.0	8744.0	8744.0	8744.0
2.5°	8701.4	8755.7	8723.7	8764.2	8795.0
5°	8679.1	8739.7	8698.2	8732.2	8740.8
7.5°	8640.7	8697.1	8658.8	8703.5	8697.1
10°	8579.0	8630.0	8603.4	8650.3	8653.4
12.5°	8500.2	8551.2	8526.8	8584.2	8583.2
15°	8413.9	8465.1	8439.4	8503.4	8507.7
17.5°	8312.8	8359.7	8340.4	8399.1	8375.6
20°	8195.6	8236.1	8226.5	8281.9	8264.8
22.5°	8051.9	8093.4	8083.9	8147.8	8122.2
25°	7895.5	7937.0	7925.3	7996.6	7973.2
27.5°	7726.2	7765.5	7764.4	7831.6	7795.4
30°	7530.3	7582.5	7585.7	7645.3	7602.7
32.5°	7336.6	7385.5	7399.3	7443.0	7406.8
35°	7119.3	7168.3	7184.3	7229.0	7189.6
37.5°	6885.1	6926.6	6955.3	6988.3	6957.5
40°	6637.0	6674.3	6695.6	6736.0	6695.6
42.5°	6360.2	6413.5	6443.3	6472.0	6406.0
45°	6073.8	6134.5	6147.3	6137.7	5356.2
47.5°	5770.4	5836.4	5843.9	5096.5	4952.8
50°	5436.1	5519.2	5518.1	4710.0	4671.7
52.5°	5088.0	5167.9	5164.7	4407.7	4382.1
55°	4713.2	4799.4	4214.9	4092.5	4094.7
57.5°	4331.0	4392.7	3781.7	3786.9	3716.6
60°	3915.8	3974.3	3415.4	3382.4	3261.0
62.5°	3499.6	3524.0	3060.9	2900.1	2669.1
65°	3060.9	3086.4	2679.8	2203.8	1908.9
67.5°	2610.6	2636.1	2224.0	1639.6	1617.2
70°	2156.9	1948.3	1687.5	1366.0	1376.6
72.5°	1709.8	1496.9	1103.0	1058.2	764.4
75°	1289.3	1129.6	857.1	576.0	560.0
77.5°	897.5	778.2	458.9	392.9	367.3
80°	556.8	390.7	274.7	243.8	234.2
82.5°	282.1	224.7	149.1	149.1	149.1
85°	115.0	82.0	84.1	91.5	92.6
87.5°	24.5	33.0	40.5	41.5	40.5
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)