

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: P730762

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-AI-UNV-L750
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23115.0 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

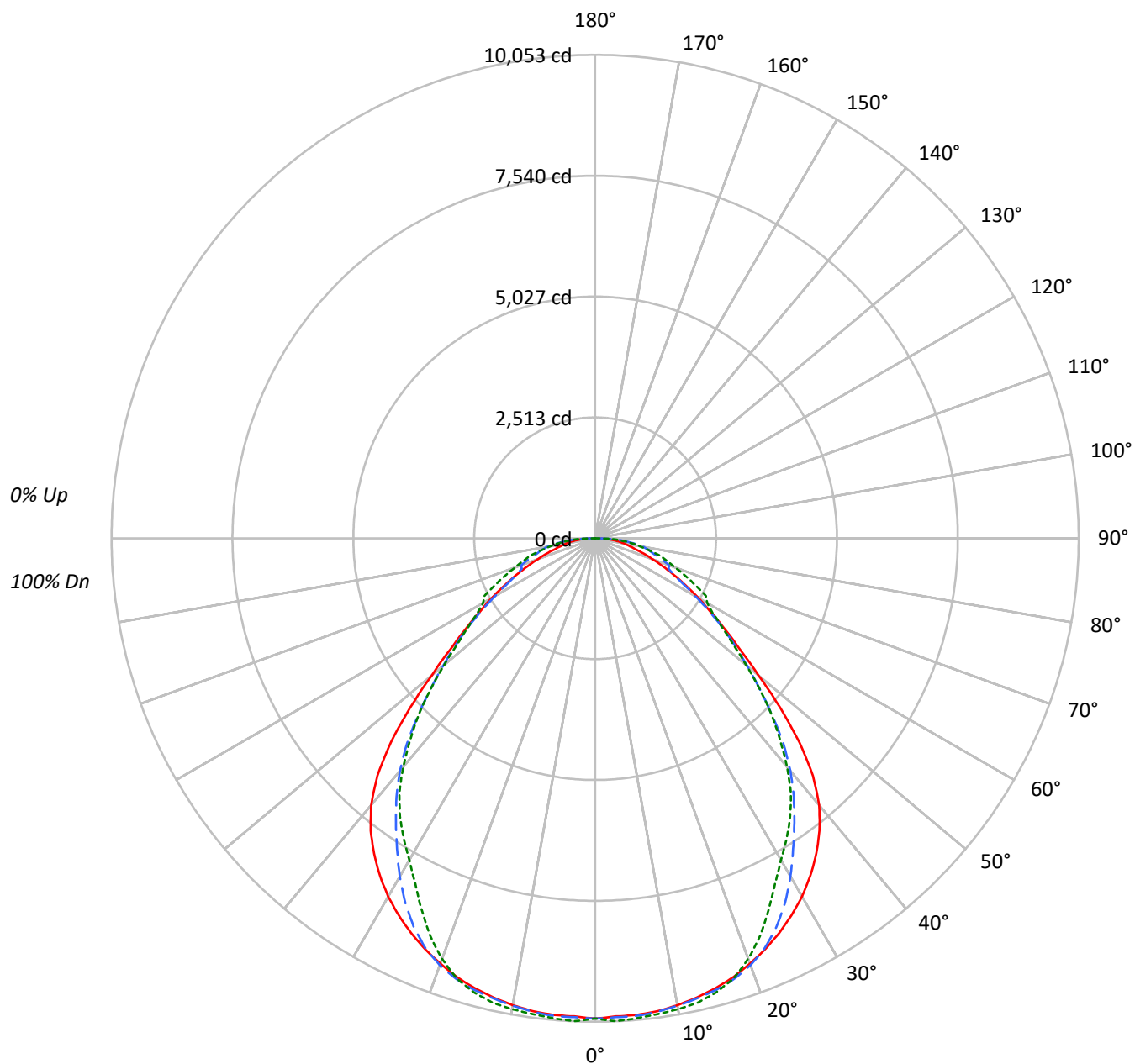
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16124	16124	16124
5°	16123	16158	16237
10°	16163	16183	16302
15°	16188	16249	16328
20°	16172	16232	15991
25°	16131	15889	15198
30°	16036	15140	14402
35°	15794	14229	13933
40°	15266	13304	13085
45°	13721	11880	11836
50°	11129	10348	10277
55°	9241	9069	9066
60°	8001	7767	8684
65°	6934	6891	8753
70°	5979	7730	8343
75°	5361	7923	8698
80°	5573	9326	8726
85°	6326	10748	9972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	950.8	4.1
10°-20°	2746.1	11.9
20°-30°	4078.5	17.6
30°-40°	4630.3	20.0
40°-50°	4139.3	17.9
50°-60°	2861.9	12.4
60°-70°	1888.4	8.2
70°-80°	1274.0	5.5
80°-90°	545.7	2.4
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°	7775.4	33.6
0°-40°	12405.7	53.7
0°-60°	19406.8	84.0
0°-90°	23115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9986	9986	9986	9986	9986	
5°	9948	10009	9969	10010	10018	947
15°	9684	9731	9721	9775	9768	2734
25°	9054	9140	8919	8653	8531	4172
35°	8013	7845	7219	7114	7069	4997
45°	6009	5500	5203	5242	5184	4570
55°	3283	2997	3222	3176	3221	2982
65°	1815	1611	1804	2109	2291	1811
75°	859	1081	1270	1357	1394	939
85°	342	475	580	584	538	356
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9986.4	9986.4	9986.4	9986.4	9986.4
2.5°	9952.5	10014.7	9968.3	10011.3	10053.1
5°	9947.9	10009.0	9969.4	10010.1	10018.1
7.5°	9919.7	9976.2	9929.8	9969.4	9978.5
10°	9858.6	9925.3	9871.0	9932.1	9943.4
12.5°	9779.5	9847.3	9799.8	9883.4	9888.0
15°	9684.4	9730.8	9720.7	9774.9	9768.1
17.5°	9564.6	9617.8	9609.8	9623.4	9591.7
20°	9411.9	9471.8	9446.9	9384.8	9306.8
22.5°	9248.0	9320.3	9222.0	9064.8	8955.0
25°	9054.5	9140.5	8918.9	8653.2	8531.0
27.5°	8840.8	8917.7	8549.1	8223.5	8096.8
30°	8601.1	8633.9	8120.5	7810.6	7724.7
32.5°	8324.0	8276.6	7662.5	7457.8	7408.1
35°	8013.1	7844.6	7219.2	7114.1	7068.8
37.5°	7662.5	7353.9	6781.7	6733.0	6685.4
40°	7243.0	6787.2	6312.3	6280.7	6208.3
42.5°	6701.4	6170.9	5791.0	5753.7	5689.2
45°	6009.3	5500.3	5202.9	5242.5	5183.7
47.5°	5213.1	4827.6	4638.7	4747.3	4638.7
50°	4430.6	4171.7	4119.6	4218.0	4091.4
52.5°	3789.4	3556.5	3663.9	3680.9	3605.1
55°	3282.8	2996.7	3221.8	3176.5	3220.6
57.5°	2841.8	2521.7	2798.8	2746.8	2898.3
60°	2477.7	2118.1	2405.3	2394.0	2689.1
62.5°	2120.4	1833.1	2063.7	2230.0	2593.0
65°	1815.0	1611.4	1803.7	2109.0	2291.1
67.5°	1522.1	1445.2	1649.8	1819.5	2018.6
70°	1266.5	1306.1	1637.4	1605.8	1767.4
72.5°	1051.7	1186.3	1445.2	1450.9	1565.1
75°	859.4	1081.1	1270.0	1357.0	1394.3
77.5°	714.7	980.4	1146.7	1177.2	1141.0
80°	599.4	863.9	1003.0	989.5	938.5
82.5°	483.9	654.8	790.5	802.9	742.9
85°	341.5	475.0	580.2	583.5	538.3
87.5°	183.2	292.9	351.7	361.9	334.7
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)