

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: P730800

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-WG-UNV-L840
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23134.0 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

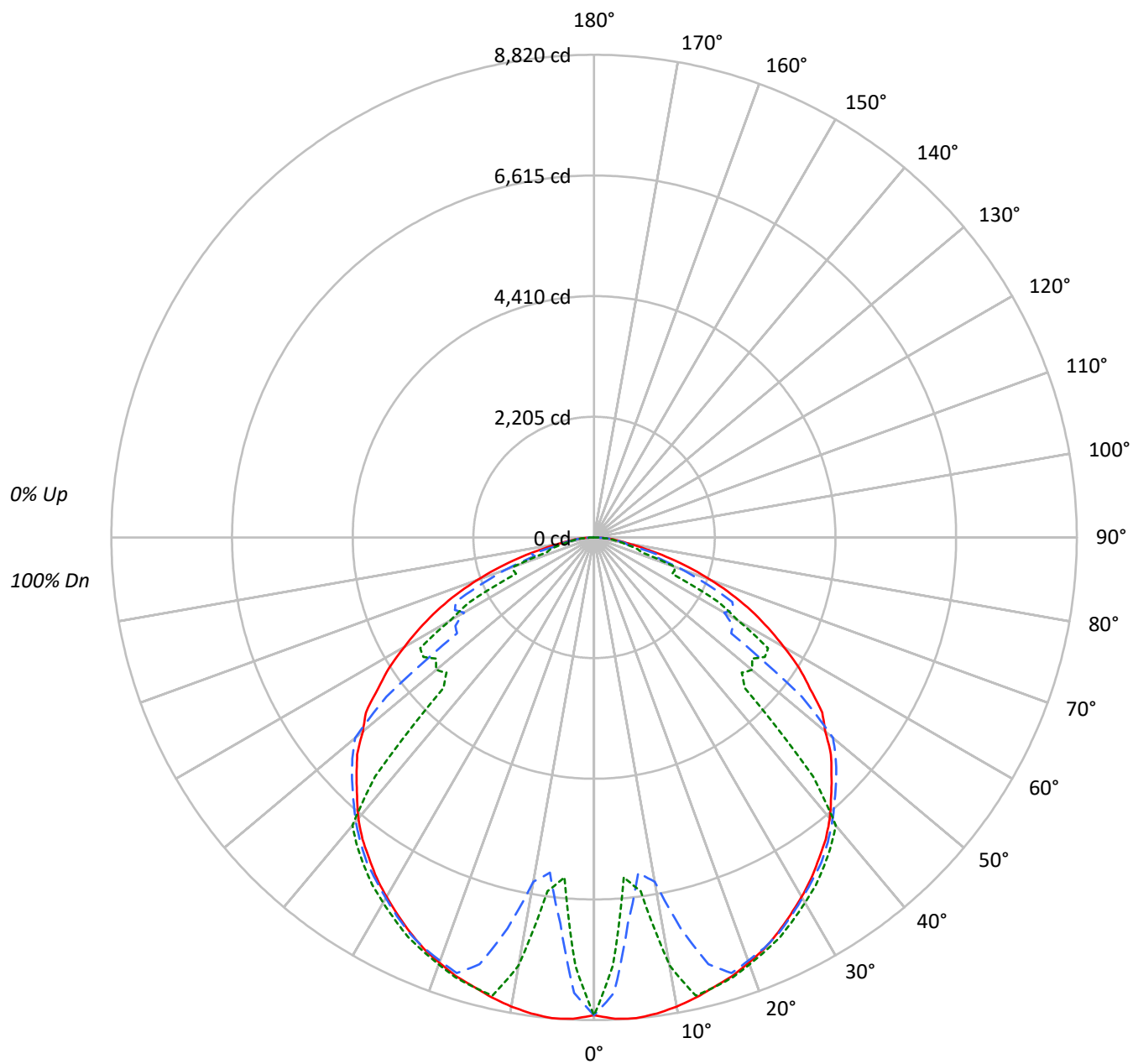
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14099	14099	14099
5°	14295	11484	10100
10°	14270	10473	13026
15°	14207	13499	14219
20°	14207	14143	14268
25°	14182	14214	14344
30°	14141	14188	14371
35°	14118	14275	14442
40°	14120	14274	14479
45°	14010	14284	8876
50°	13851	14313	9460
55°	13559	8606	10722
60°	12934	8871	9819
65°	12119	10651	6008
70°	10701	8069	7364
75°	8527	7335	5107
80°	5874	5301	4389
85°	5628	4893	4642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.3	3.0
10°-20°	2187.6	9.5
20°-30°	3599.1	15.6
30°-40°	4525.4	19.6
40°-50°	4438.3	19.2
50°-60°	3677.3	15.9
60°-70°	2593.7	11.2
70°-80°	1131.6	4.9
80°-90°	282.7	1.2
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°	6485.0	28.0
0°-40°	11010.4	47.6
0°-60°	19126.0	82.7
0°-90°	23134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8732	8732	8732	8732	8732	
5°	8820	8209	7086	6425	6232	837
15°	8500	5903	8076	8533	8507	2403
25°	7961	7284	7978	8032	8052	3669
35°	7163	7159	7242	7290	7327	4488
45°	6136	6154	6256	5540	3887	4736
55°	4817	4974	3057	3476	3809	4310
65°	3172	3359	2788	2145	1572	3119
75°	1367	1340	1176	768	819	1466
85°	304	270	264	253	251	315
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8732.3	8732.3	8732.3	8732.3	8732.3
2.5°	8804.4	8621.6	8331.4	7965.9	7836.5
5°	8820.1	8209.2	7085.7	6424.7	6231.5
7.5°	8775.2	7460.5	6177.3	6316.1	6520.8
10°	8704.2	6802.7	6388.2	7515.9	7945.0
12.5°	8613.3	6218.0	7318.5	8490.1	8575.7
15°	8499.5	5902.7	8075.6	8532.9	8506.8
17.5°	8403.4	6087.5	8347.0	8447.3	8428.4
20°	8268.7	6456.1	8231.1	8311.5	8304.2
22.5°	8133.0	6892.5	8121.5	8179.0	8179.0
25°	7960.7	7284.1	7978.4	8031.7	8051.6
27.5°	7771.7	7509.6	7799.8	7843.7	7879.2
30°	7584.8	7542.0	7609.9	7666.3	7708.0
32.5°	7387.5	7370.8	7424.0	7483.5	7536.7
35°	7162.9	7158.7	7242.3	7290.3	7326.9
37.5°	6952.0	6937.4	7014.7	7081.5	7109.7
40°	6699.4	6699.4	6772.4	6840.3	6869.6
42.5°	6411.1	6451.9	6508.3	6578.2	5924.6
45°	6135.5	6154.3	6255.5	5540.4	3887.4
47.5°	5870.2	5894.2	5990.4	3561.6	3658.8
50°	5514.2	5622.8	5698.0	3551.2	3766.3
52.5°	5254.3	5301.2	4783.3	3515.7	3636.8
55°	4816.8	4974.4	3057.3	3476.0	3809.1
57.5°	4442.9	4557.8	3006.2	3561.6	3768.4
60°	4005.4	4180.8	2747.1	3436.4	3040.6
62.5°	3585.6	3752.7	2868.3	2704.4	2574.9
65°	3172.1	3359.0	2787.9	2144.7	1572.5
67.5°	2719.0	2544.7	2224.1	1510.9	1590.3
70°	2266.9	1777.2	1709.3	1689.5	1560.0
72.5°	1802.2	1296.9	1135.0	1267.7	907.4
75°	1366.9	1339.7	1175.8	768.5	818.6
77.5°	948.1	966.9	629.6	749.7	622.3
80°	631.7	547.2	570.1	478.2	472.0
82.5°	437.5	446.9	374.8	363.3	368.6
85°	303.8	270.4	264.1	252.7	250.6
87.5°	101.2	118.0	109.7	99.2	105.5
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)