

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: P730776

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
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-WG-UNV-L840
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21668.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

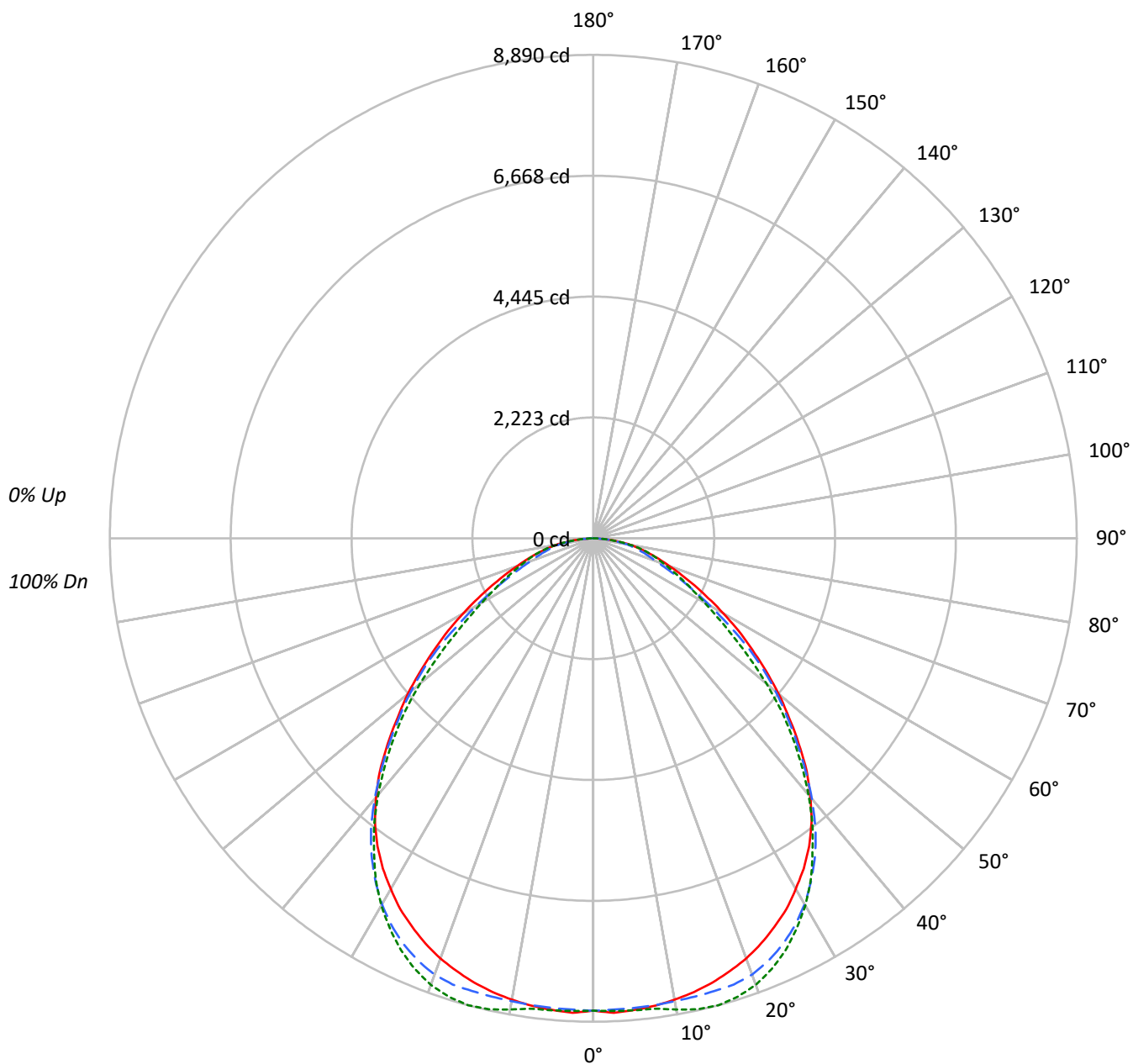
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14028	14028	14028
5°	14111	14052	14121
10°	14123	14171	14424
15°	14141	14407	14860
20°	14131	14670	15013
25°	14045	14684	14899
30°	13883	14489	14535
35°	13636	14020	13852
40°	13098	13178	12970
45°	12204	12076	11830
50°	11173	10994	10430
55°	10036	9664	8819
60°	8901	7996	7613
65°	7843	6644	6909
70°	7014	5766	6580
75°	6571	5606	6654
80°	6396	5667	6334
85°	5106	4485	4650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.6	3.8
10°-20°	2437.9	11.3
20°-30°	3750.4	17.3
30°-40°	4376.9	20.2
40°-50°	4067.3	18.8
50°-60°	3014.8	13.9
60°-70°	1843.0	8.5
70°-80°	1049.8	4.8
80°-90°	300.3	1.4
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°	7015.9	32.4
0°-40°	11392.8	52.6
0°-60°	18475.0	85.3
0°-90°	21668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8688	8688	8688	8688	8688	
5°	8706	8666	8670	8664	8713	828
15°	8460	8455	8619	8789	8890	2388
25°	7884	7944	8242	8312	8363	3632
35°	6918	6972	7113	7055	7028	4310
45°	5345	5376	5289	5206	5181	4118
55°	3565	3476	3433	3189	3133	3200
65°	2053	1864	1739	1786	1808	2054
75°	1053	988	899	1024	1067	1127
85°	276	269	242	251	251	318
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8688.3	8688.3	8688.3	8688.3	8688.3
2.5°	8735.3	8686.0	8677.0	8656.9	8701.6
5°	8706.2	8665.8	8670.3	8663.6	8712.9
7.5°	8672.5	8643.4	8661.4	8659.1	8724.1
10°	8614.3	8598.6	8643.4	8692.7	8798.1
12.5°	8549.3	8533.6	8632.2	8757.7	8872.0
15°	8459.7	8455.1	8618.8	8789.1	8889.9
17.5°	8347.6	8354.4	8603.0	8748.8	8838.4
20°	8224.4	8235.6	8538.1	8656.9	8737.6
22.5°	8065.3	8103.4	8412.6	8511.2	8573.9
25°	7883.7	7944.2	8242.3	8311.8	8363.3
27.5°	7688.8	7749.3	8031.6	8067.5	8096.7
30°	7446.7	7531.9	7771.6	7776.2	7796.3
32.5°	7200.2	7276.5	7460.2	7440.0	7444.5
35°	6917.9	6971.6	7112.8	7054.6	7027.7
37.5°	6593.0	6622.1	6711.7	6624.3	6619.8
40°	6214.2	6252.3	6252.3	6131.3	6153.7
42.5°	5810.9	5824.2	5768.3	5654.0	5671.9
45°	5344.7	5376.1	5288.6	5205.8	5181.1
47.5°	4883.0	4914.4	4822.6	4726.2	4683.7
50°	4448.3	4432.6	4376.7	4213.0	4152.5
52.5°	3997.9	3948.6	3926.2	3686.4	3616.9
55°	3565.4	3475.8	3433.2	3188.9	3132.8
57.5°	3164.2	3002.9	2922.3	2731.8	2709.3
60°	2756.4	2574.9	2476.3	2353.0	2357.5
62.5°	2386.7	2196.1	2077.4	2041.6	2057.2
65°	2052.8	1864.5	1739.0	1786.0	1808.4
67.5°	1750.2	1595.6	1454.4	1564.2	1586.6
70°	1485.8	1362.5	1221.4	1382.7	1393.9
72.5°	1266.1	1165.3	1046.5	1198.9	1223.5
75°	1053.3	988.3	898.6	1024.1	1066.7
77.5°	867.2	815.8	764.2	840.4	887.4
80°	687.9	636.5	609.5	649.8	681.2
82.5°	486.3	452.7	425.8	454.9	470.6
85°	275.6	268.9	242.1	251.0	251.0
87.5°	62.8	71.7	80.7	74.0	62.8
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)