

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: P730758

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-A-UNV-L840
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21472.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

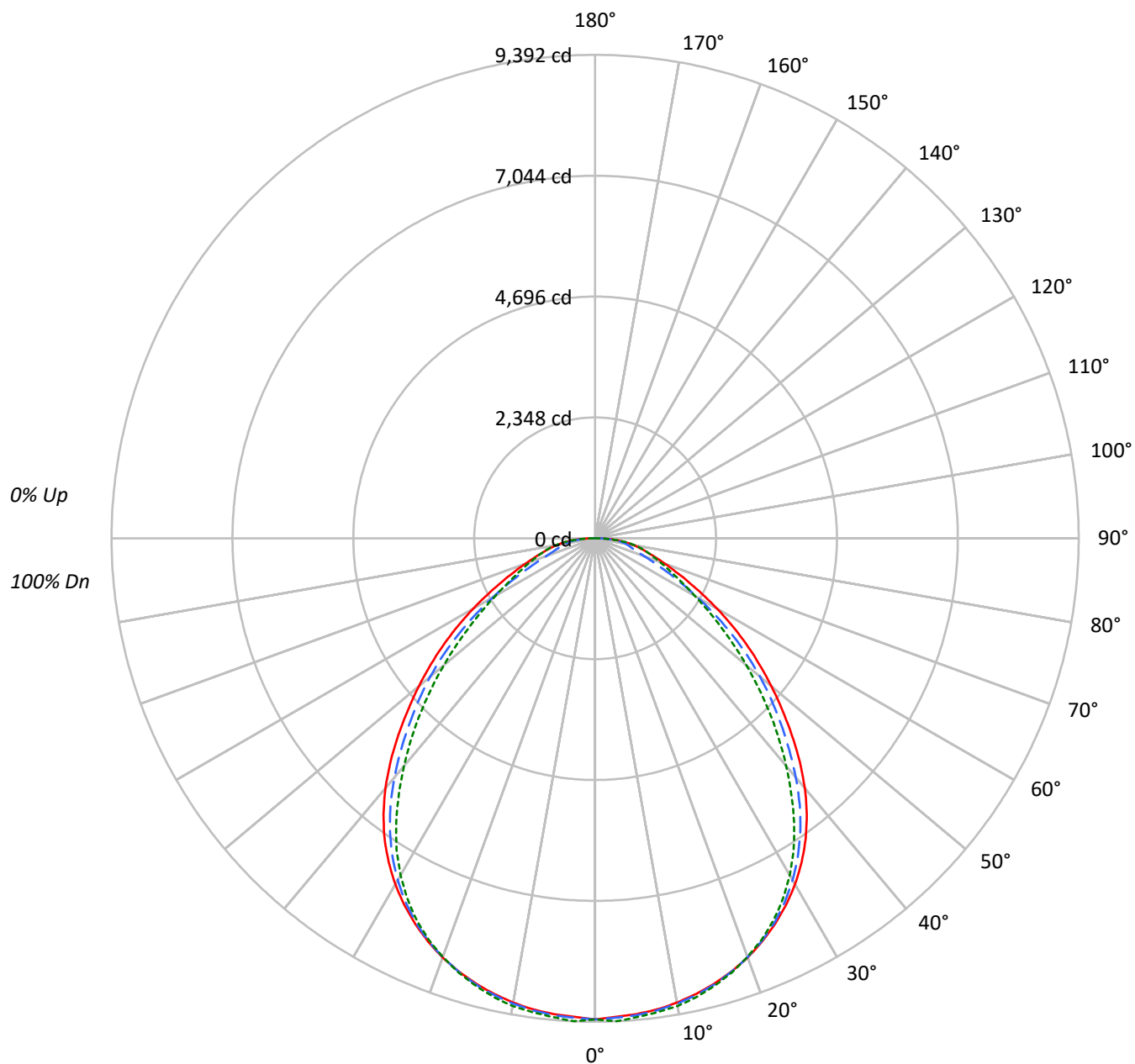
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15092	15092	15092
5°	15038	15073	15134
10°	15017	15052	15128
15°	14967	14997	15032
20°	14888	14878	14867
25°	14727	14676	14594
30°	14473	14298	14089
35°	14052	13699	13277
40°	13353	12780	12167
45°	12336	11647	10942
50°	11214	10488	9625
55°	10083	9080	8320
60°	8823	7421	7220
65°	7608	5835	6516
70°	6783	4763	6280
75°	6497	4649	6563
80°	7027	5499	7311
85°	7890	6621	7968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	885.9	4.1
10°-20°	2535.3	11.8
20°-30°	3792.6	17.7
30°-40°	4327.0	20.2
40°-50°	3938.8	18.3
50°-60°	2892.2	13.5
60°-70°	1707.7	8.0
70°-80°	978.7	4.6
80°-90°	413.8	1.9
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°	7213.8	33.6
0°-40°	11540.8	53.7
0°-60°	18371.8	85.6
0°-90°	21472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9347	9347	9347	9347	9347	
5°	9279	9337	9300	9337	9338	882
15°	8954	9003	8972	9003	8993	2527
25°	8267	8296	8238	8235	8192	3805
35°	7129	7094	6950	6831	6736	4442
45°	5402	5371	5101	4872	4792	4163
55°	3582	3416	3226	2992	2956	3203
65°	1991	1738	1527	1634	1706	2004
75°	1042	893	745	972	1052	1123
85°	426	393	357	422	430	445
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9347.1	9347.1	9347.1	9347.1	9347.1
2.5°	9303.9	9357.7	9323.9	9360.8	9392.4
5°	9278.6	9336.6	9299.7	9336.6	9337.6
7.5°	9232.3	9286.0	9250.2	9290.2	9286.0
10°	9159.4	9213.2	9180.6	9223.8	9227.0
12.5°	9066.7	9118.4	9084.7	9134.2	9125.8
15°	8953.9	9003.4	8971.8	9003.4	8993.0
17.5°	8821.1	8866.4	8825.4	8860.1	8842.2
20°	8665.1	8703.0	8658.8	8691.4	8652.5
22.5°	8478.6	8512.2	8465.8	8483.7	8443.7
25°	8266.6	8296.1	8238.1	8235.0	8191.8
27.5°	8030.5	8046.3	7972.5	7947.2	7897.6
30°	7762.8	7767.0	7668.9	7621.5	7557.2
32.5°	7462.3	7451.8	7326.3	7255.7	7176.6
35°	7129.2	7094.4	6950.0	6830.9	6736.0
37.5°	6752.9	6698.1	6525.2	6349.2	6258.4
40°	6335.4	6271.2	6063.5	5845.2	5772.5
42.5°	5881.1	5826.3	5581.7	5354.0	5282.3
45°	5402.5	5370.9	5101.0	4872.3	4792.1
47.5°	4923.9	4900.7	4637.2	4404.2	4307.2
50°	4464.3	4413.7	4175.5	3920.3	3831.9
52.5°	4018.4	3915.1	3705.4	3443.9	3378.6
55°	3582.0	3416.5	3225.7	2991.7	2955.8
57.5°	3149.8	2935.8	2750.3	2575.3	2574.2
60°	2732.4	2487.8	2298.0	2206.3	2235.9
62.5°	2341.2	2090.3	1884.8	1891.1	1944.9
65°	1991.3	1738.3	1527.4	1633.9	1705.6
67.5°	1690.9	1449.4	1235.5	1433.7	1502.1
70°	1436.8	1218.6	1008.9	1256.5	1330.3
72.5°	1222.8	1039.4	850.7	1108.9	1183.8
75°	1041.5	892.8	745.3	972.0	1052.0
77.5°	893.9	762.1	668.4	841.2	924.5
80°	755.8	639.9	591.4	714.8	786.3
82.5°	598.7	518.7	490.2	580.8	617.7
85°	425.9	393.2	357.4	421.6	430.1
87.5°	234.0	242.5	200.2	242.5	243.5
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)