

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: P730696

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730696
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-LD5-24HE-W-CL-UNV-L750
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23780.0 lumens
Efficiency: N/A
Efficacy: 166.3 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

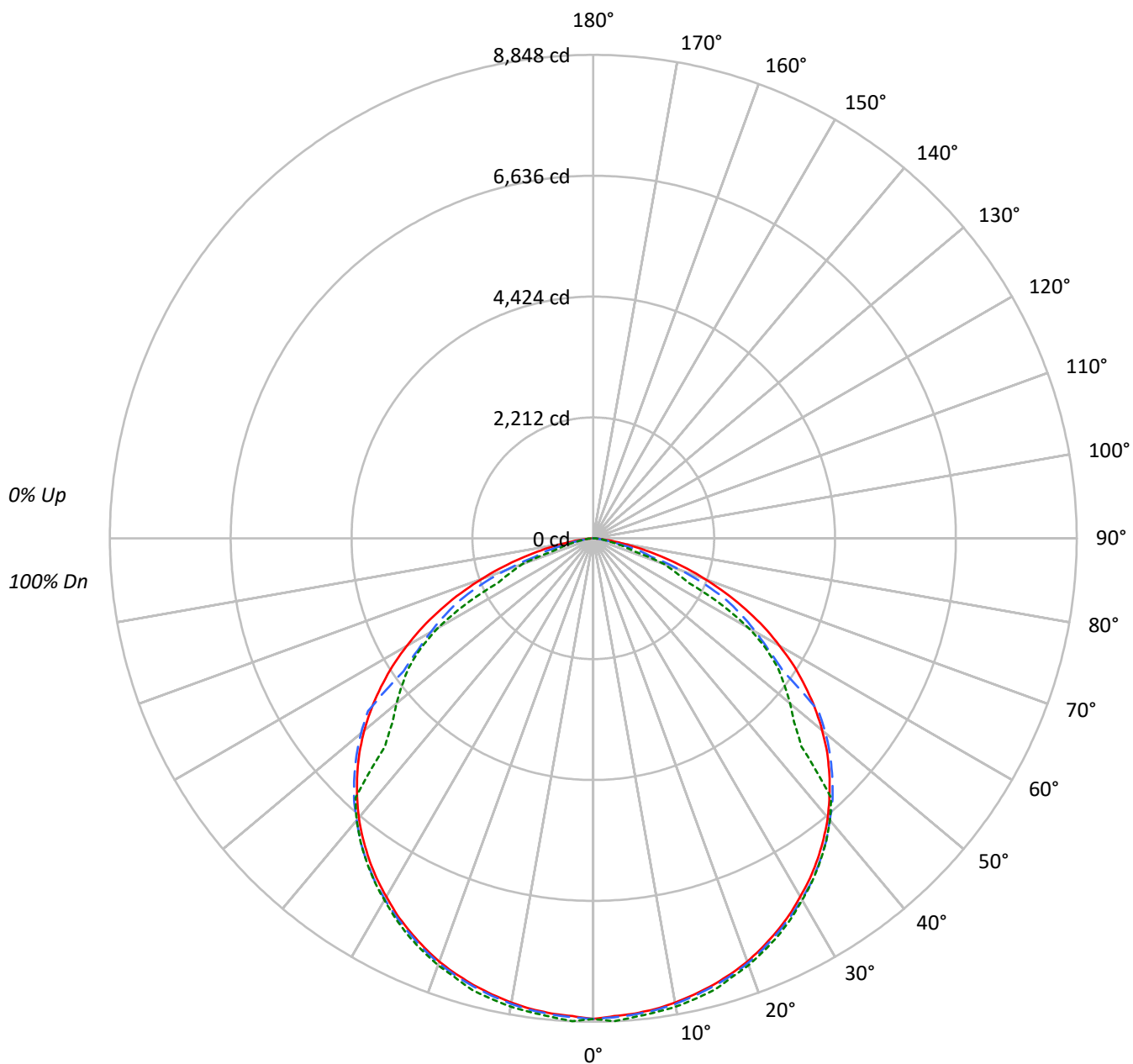
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14202	14202	14202
5°	14150	14182	14251
10°	14149	14190	14272
15°	14148	14191	14306
20°	14166	14219	14285
25°	14150	14203	14289
30°	14123	14227	14259
35°	14116	14245	14256
40°	14072	14197	14197
45°	13951	14120	12303
50°	13736	13943	11805
55°	13347	11935	11595
60°	12720	11095	10593
65°	11764	10299	7336
70°	10243	8014	6537
75°	8091	5379	3514
80°	5208	2569	2191
85°	2143	1567	1725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.4	3.5
10°-20°	2405.0	10.1
20°-30°	3687.2	15.5
30°-40°	4519.3	19.0
40°-50°	4646.2	19.5
50°-60°	3965.3	16.7
60°-70°	2621.5	11.0
70°-80°	971.3	4.1
80°-90°	129.9	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°	6926.6	29.1
0°-40°	11445.9	48.1
0°-60°	20057.3	84.3
0°-90°	23780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8796	8796	8796	8796	8796	
5°	8731	8792	8750	8784	8793	830
15°	8464	8516	8490	8554	8558	2391
25°	7943	7984	7972	8044	8021	3662
35°	7162	7211	7227	7272	7232	4480
45°	6110	6171	6184	6174	5388	4709
55°	4741	4828	4240	4117	4119	4231
65°	3079	3105	2696	2217	1920	3036
75°	1297	1136	862	579	563	1391
85°	116	82	85	92	93	191
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8796.1	8796.1	8796.1	8796.1	8796.1
2.5°	8753.3	8807.9	8775.7	8816.4	8847.5
5°	8730.8	8791.8	8750.0	8784.3	8792.9
7.5°	8692.3	8749.0	8710.4	8755.4	8749.0
10°	8630.2	8681.5	8654.8	8701.9	8705.0
12.5°	8550.9	8602.2	8577.6	8635.4	8634.4
15°	8464.1	8515.5	8489.8	8554.1	8558.4
17.5°	8362.4	8409.5	8390.2	8449.2	8425.5
20°	8244.5	8285.2	8275.6	8331.3	8314.1
22.5°	8099.9	8141.7	8132.2	8196.4	8170.6
25°	7942.6	7984.3	7972.5	8044.3	8020.8
27.5°	7772.3	7811.8	7810.8	7878.3	7841.9
30°	7575.2	7627.7	7630.9	7690.9	7648.0
32.5°	7380.3	7429.5	7443.5	7487.4	7451.0
35°	7161.8	7211.0	7227.1	7272.1	7232.5
37.5°	6926.1	6967.9	6996.8	7030.0	6999.0
40°	6676.6	6714.1	6735.6	6776.2	6735.6
42.5°	6398.2	6451.8	6481.7	6510.6	6444.2
45°	6110.0	6171.1	6184.0	6174.3	5388.2
47.5°	5804.9	5871.2	5878.8	5126.9	4982.3
50°	5468.5	5552.1	5551.0	4738.1	4699.6
52.5°	5118.3	5198.7	5195.5	4433.9	4408.3
55°	4741.3	4828.1	4240.0	4116.9	4119.1
57.5°	4356.8	4418.9	3804.2	3809.5	3738.8
60°	3939.2	3998.0	3435.8	3402.6	3280.4
62.5°	3520.4	3545.0	3079.1	2917.4	2685.0
65°	3079.1	3104.8	2695.8	2217.0	1920.3
67.5°	2626.1	2651.8	2237.3	1649.4	1626.8
70°	2169.8	1959.9	1697.6	1374.1	1384.8
72.5°	1720.0	1505.8	1109.6	1064.6	768.9
75°	1297.0	1136.3	862.2	579.4	563.3
77.5°	902.9	782.9	461.6	395.2	369.5
80°	560.1	393.1	276.3	245.2	235.6
82.5°	283.8	226.0	150.0	150.0	150.0
85°	115.7	82.5	84.6	92.1	93.1
87.5°	24.6	33.2	40.7	41.8	40.7
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)