

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: P730692

Luminaire Tested: **HBLED-LD5-24HE-W-AI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730692
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-LD5-24HE-W-AI-UNV-L840
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21674.0 lumens
Efficiency: N/A
Efficacy: 151.6 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

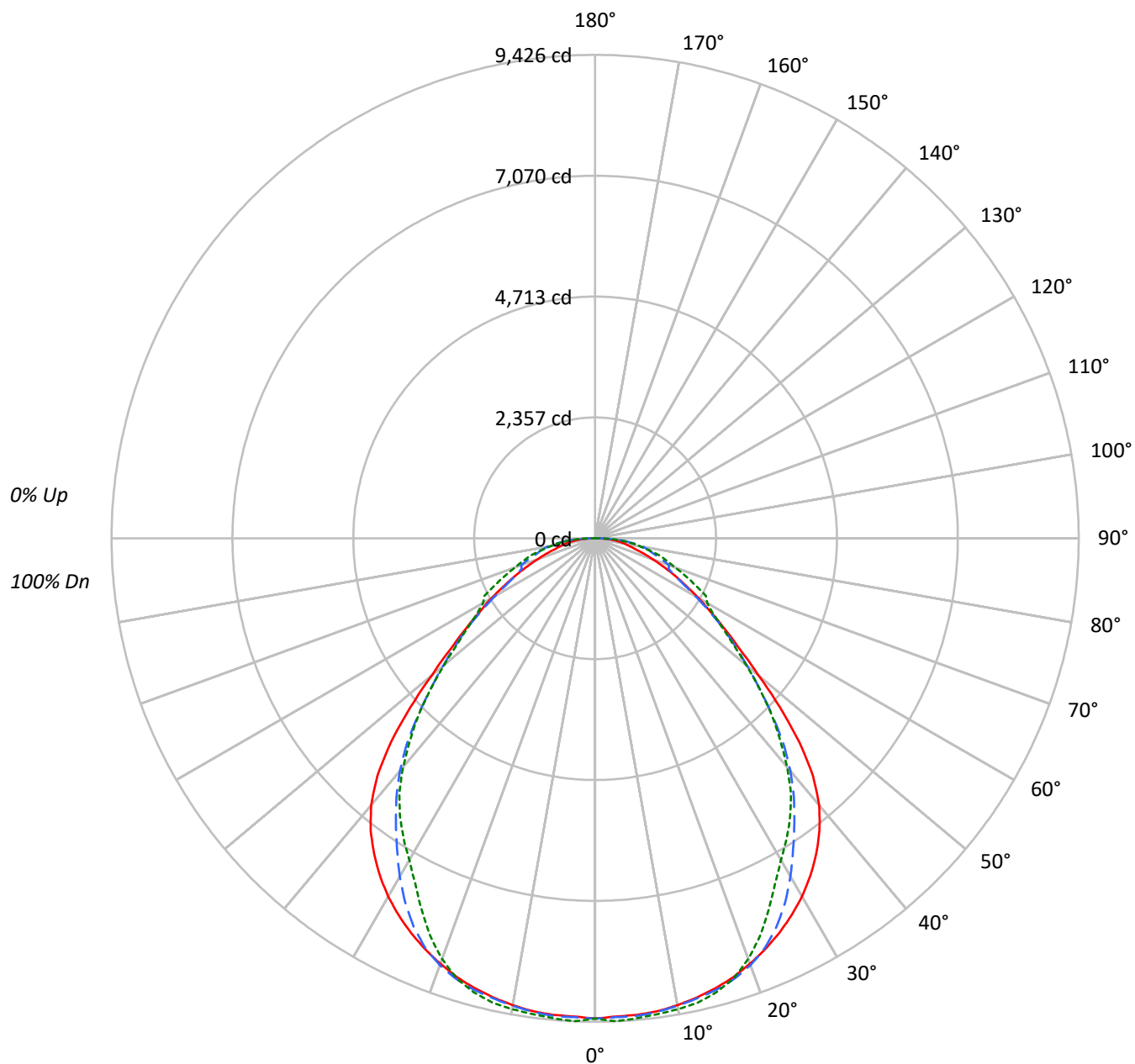
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15119	15119	15119
5°	15118	15151	15225
10°	15155	15175	15286
15°	15179	15236	15310
20°	15164	15220	14994
25°	15125	14899	14251
30°	15036	14196	13504
35°	14810	13342	13064
40°	14314	12475	12269
45°	12866	11140	11099
50°	10435	9703	9636
55°	8665	8504	8501
60°	7502	7283	8142
65°	6502	6461	8207
70°	5606	7248	7824
75°	5027	7429	8156
80°	5225	8745	8182
85°	5932	10078	9350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.6	4.1
10°-20°	2574.9	11.9
20°-30°	3824.3	17.6
30°-40°	4341.6	20.0
40°-50°	3881.2	17.9
50°-60°	2683.5	12.4
60°-70°	1770.7	8.2
70°-80°	1194.6	5.5
80°-90°	511.7	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°	7290.7	33.6
0°-40°	11632.3	53.7
0°-60°	18197.0	84.0
0°-90°	21674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9364	9364	9364	9364	9364	
5°	9328	9385	9348	9386	9394	888
15°	9081	9124	9115	9166	9159	2563
25°	8490	8571	8363	8114	7999	3912
35°	7514	7356	6769	6671	6628	4685
45°	5635	5157	4879	4916	4861	4285
55°	3078	2810	3021	2978	3020	2796
65°	1702	1511	1691	1978	2148	1698
75°	806	1014	1191	1272	1307	880
85°	320	445	544	547	505	334
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9363.9	9363.9	9363.9	9363.9	9363.9
2.5°	9332.1	9390.4	9346.9	9387.2	9426.4
5°	9327.8	9385.0	9347.9	9386.1	9393.5
7.5°	9301.3	9354.2	9310.8	9347.9	9356.4
10°	9244.0	9306.6	9255.6	9312.9	9323.6
12.5°	9169.8	9233.4	9188.8	9267.3	9271.6
15°	9080.7	9124.2	9114.7	9165.5	9159.2
17.5°	8968.3	9018.2	9010.7	9023.4	8993.8
20°	8825.2	8881.3	8858.0	8799.7	8726.6
22.5°	8671.4	8739.3	8647.1	8499.7	8396.8
25°	8490.1	8570.7	8362.9	8113.7	7999.2
27.5°	8289.7	8361.8	8016.1	7710.8	7592.0
30°	8064.9	8095.6	7614.2	7323.7	7243.1
32.5°	7805.1	7760.6	7184.8	6992.9	6946.3
35°	7513.6	7355.5	6769.2	6670.6	6628.1
37.5°	7184.8	6895.4	6358.9	6313.3	6268.7
40°	6791.5	6364.1	5918.8	5889.2	5821.2
42.5°	6283.6	5786.2	5430.0	5395.0	5334.5
45°	5634.6	5157.4	4878.6	4915.7	4860.6
47.5°	4888.1	4526.6	4349.5	4451.3	4349.5
50°	4154.4	3911.6	3862.8	3955.1	3836.3
52.5°	3553.2	3334.8	3435.5	3451.4	3380.4
55°	3078.1	2809.9	3020.9	2978.5	3019.8
57.5°	2664.6	2364.5	2624.3	2575.6	2717.6
60°	2323.2	1986.0	2255.4	2244.7	2521.4
62.5°	1988.2	1718.8	1935.1	2091.0	2431.3
65°	1701.9	1511.0	1691.2	1977.5	2148.3
67.5°	1427.2	1355.1	1547.0	1706.1	1892.7
70°	1187.5	1224.7	1535.3	1505.7	1657.3
72.5°	986.1	1112.3	1355.1	1360.4	1467.5
75°	805.9	1013.7	1190.8	1272.4	1307.4
77.5°	670.1	919.3	1075.2	1103.9	1069.9
80°	562.0	810.1	940.5	927.8	880.0
82.5°	453.8	614.0	741.2	752.9	696.6
85°	320.2	445.4	544.0	547.2	504.7
87.5°	171.8	274.7	329.8	339.3	313.8
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)