

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: P730689

Luminaire Tested: **HBLED-LD5-24HE-W-AI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730689
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-L740
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: 22706.0 lumens
Efficiency: N/A
Efficacy: 158.8 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

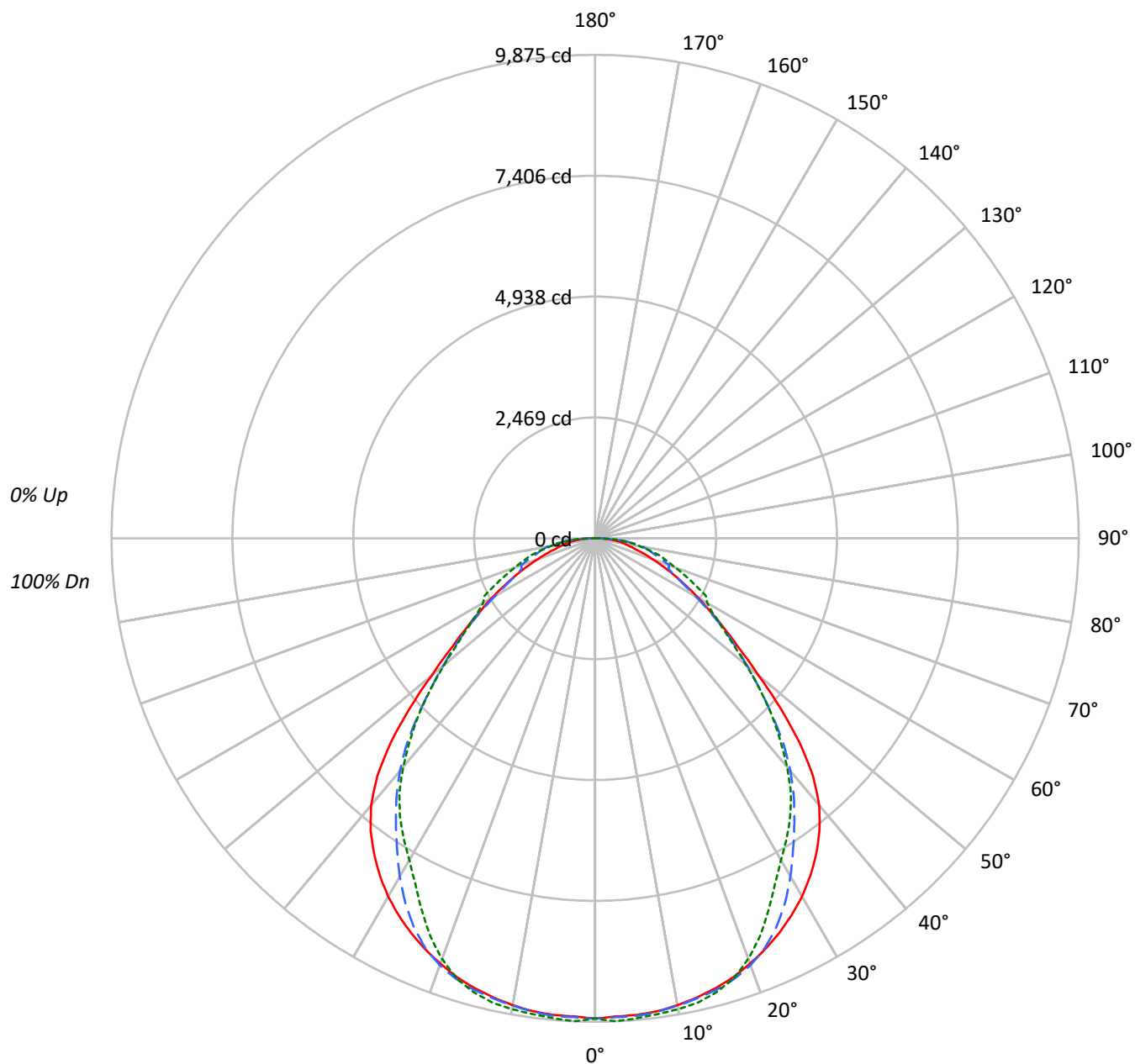
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15839	15839	15839
5°	15838	15872	15950
10°	15877	15897	16014
15°	15902	15961	16039
20°	15886	15945	15708
25°	15845	15608	14929
30°	15752	14872	14147
35°	15515	13978	13686
40°	14996	13069	12854
45°	13479	11670	11627
50°	10932	10165	10095
55°	9077	8909	8905
60°	7859	7630	8530
65°	6811	6769	8598
70°	5873	7593	8196
75°	5266	7782	8545
80°	5475	9161	8572
85°	6213	10558	9794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.0	4.1
10°-20°	2697.5	11.9
20°-30°	4006.3	17.6
30°-40°	4548.3	20.0
40°-50°	4066.0	17.9
50°-60°	2811.3	12.4
60°-70°	1855.0	8.2
70°-80°	1251.5	5.5
80°-90°	536.0	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°	7637.9	33.6
0°-40°	12186.2	53.7
0°-60°	19063.5	84.0
0°-90°	22706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9810	9810	9810	9810	9810	
5°	9772	9832	9793	9833	9841	930
15°	9513	9559	9549	9602	9595	2685
25°	8894	8979	8761	8500	8380	4098
35°	7871	7706	7092	6988	6944	4908
45°	5903	5403	5111	5150	5092	4489
55°	3225	2944	3165	3120	3164	2929
65°	1783	1583	1772	2072	2251	1779
75°	844	1062	1248	1333	1370	922
85°	335	467	570	573	529	350
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9809.7	9809.7	9809.7	9809.7	9809.7
2.5°	9776.4	9837.5	9791.9	9834.2	9875.2
5°	9771.9	9831.9	9793.0	9833.0	9840.8
7.5°	9744.1	9799.6	9754.1	9793.0	9801.9
10°	9684.1	9749.7	9696.3	9756.4	9767.5
12.5°	9606.4	9673.1	9626.4	9708.6	9713.1
15°	9513.1	9558.6	9548.7	9601.9	9595.3
17.5°	9395.3	9447.6	9439.8	9453.1	9422.0
20°	9245.4	9304.2	9279.8	9218.7	9142.1
22.5°	9084.3	9155.4	9058.8	8904.4	8796.6
25°	8894.3	8978.8	8761.1	8500.1	8380.0
27.5°	8684.4	8759.9	8397.8	8077.9	7953.5
30°	8448.9	8481.1	7976.8	7672.4	7588.0
32.5°	8176.7	8130.1	7526.9	7325.9	7277.0
35°	7871.3	7705.8	7091.5	6988.2	6943.7
37.5°	7526.9	7223.7	6661.7	6613.9	6567.1
40°	7114.9	6667.1	6200.6	6169.6	6098.4
42.5°	6582.8	6061.8	5688.5	5651.8	5588.5
45°	5902.9	5403.0	5110.9	5149.8	5092.0
47.5°	5120.9	4742.1	4556.6	4663.3	4556.6
50°	4352.2	4097.9	4046.7	4143.4	4019.0
52.5°	3722.4	3493.6	3599.1	3615.7	3541.4
55°	3224.7	2943.7	3164.8	3120.3	3163.6
57.5°	2791.5	2477.1	2749.3	2698.2	2847.0
60°	2433.8	2080.6	2362.8	2351.6	2641.5
62.5°	2082.8	1800.7	2027.2	2190.5	2547.1
65°	1782.9	1582.9	1771.7	2071.7	2250.6
67.5°	1495.2	1419.6	1620.6	1787.3	1982.9
70°	1244.1	1283.0	1608.4	1577.4	1736.2
72.5°	1033.1	1165.3	1419.6	1425.2	1537.4
75°	844.2	1062.0	1247.5	1333.0	1369.7
77.5°	702.0	963.1	1126.4	1156.4	1120.8
80°	588.8	848.6	985.3	972.0	921.9
82.5°	475.4	643.2	776.5	788.7	729.8
85°	335.4	466.6	569.9	573.2	528.7
87.5°	179.9	287.7	345.5	355.5	328.8
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)