

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: P730695

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730695
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-L740
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: 23221.0 lumens
Efficiency: N/A
Efficacy: 162.4 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

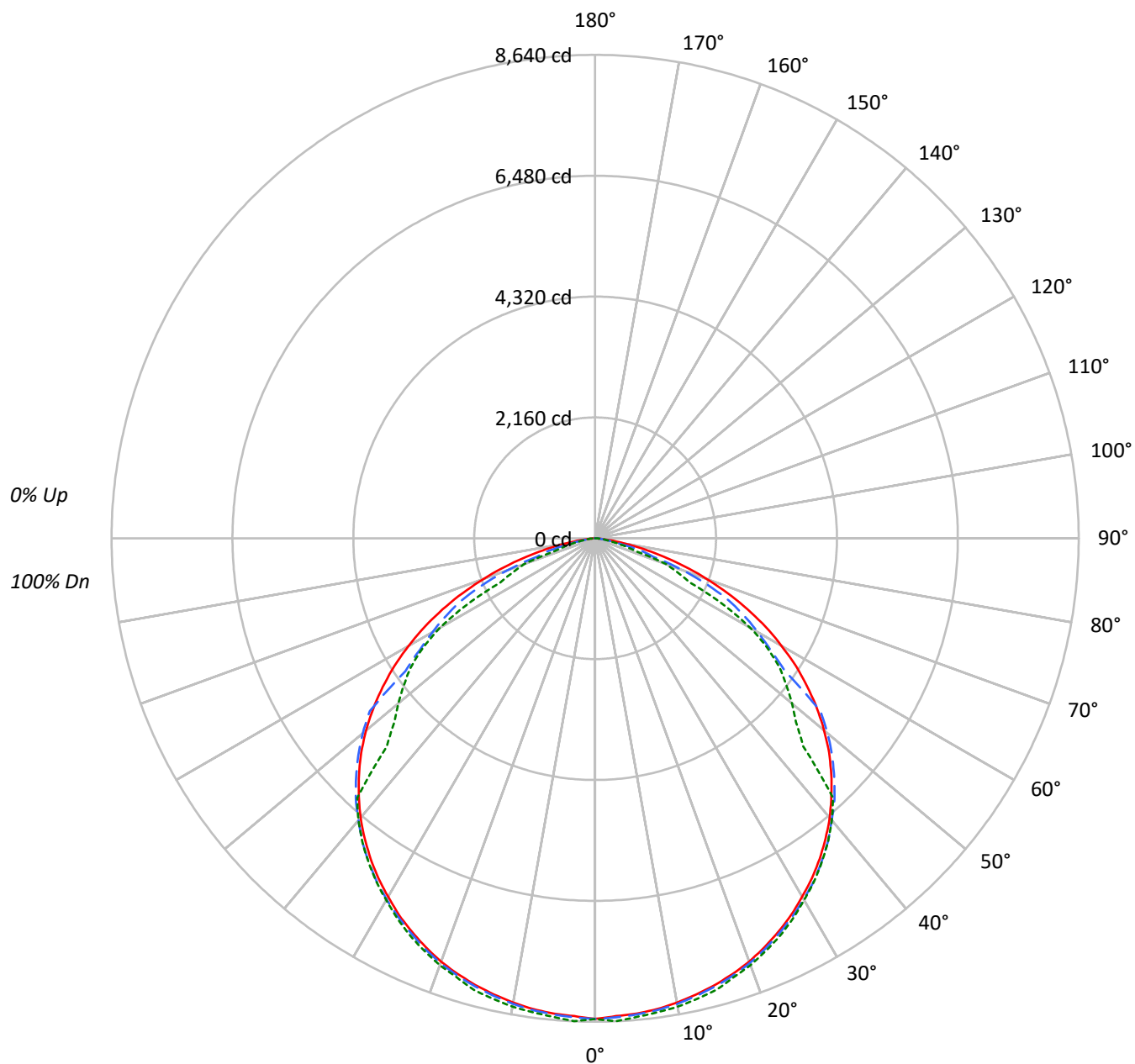
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	55	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	42	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	38	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	30	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13868	13868	13868
5°	13818	13848	13916
10°	13817	13856	13936
15°	13815	13857	13969
20°	13833	13885	13950
25°	13817	13869	13953
30°	13791	13892	13923
35°	13785	13910	13921
40°	13741	13863	13863
45°	13624	13788	12014
50°	13413	13615	11527
55°	13033	11655	11323
60°	12421	10834	10344
65°	11487	10057	7164
70°	10002	7826	6383
75°	7901	5252	3432
80°	5085	2509	2139
85°	2093	1532	1684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.8	3.5
10°-20°	2348.5	10.1
20°-30°	3600.6	15.5
30°-40°	4413.0	19.0
40°-50°	4537.0	19.5
50°-60°	3872.1	16.7
60°-70°	2559.9	11.0
70°-80°	948.4	4.1
80°-90°	126.8	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°	6763.8	29.1
0°-40°	11176.8	48.1
0°-60°	19585.9	84.3
0°-90°	23221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8589	8589	8589	8589	8589	
5°	8526	8585	8544	8578	8586	811
15°	8265	8315	8290	8353	8357	2335
25°	7756	7797	7785	7855	7832	3576
35°	6994	7042	7057	7101	7062	4374
45°	5966	6026	6039	6029	5262	4598
55°	4630	4715	4140	4020	4022	4131
65°	3007	3032	2632	2165	1875	2965
75°	1266	1110	842	566	550	1359
85°	113	81	83	90	91	187
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8589.4	8589.4	8589.4	8589.4	8589.4
2.5°	8547.5	8600.9	8569.4	8609.2	8639.5
5°	8525.6	8585.2	8544.4	8577.8	8586.2
7.5°	8487.9	8543.3	8505.7	8549.6	8543.3
10°	8427.3	8477.4	8451.3	8497.4	8500.4
12.5°	8349.9	8400.0	8376.0	8432.4	8431.4
15°	8265.1	8315.4	8290.2	8353.0	8357.2
17.5°	8165.8	8211.8	8193.0	8250.5	8227.5
20°	8050.7	8090.5	8081.0	8135.5	8118.7
22.5°	7909.5	7950.3	7941.0	8003.7	7978.5
25°	7755.8	7796.7	7785.1	7855.2	7832.2
27.5°	7589.6	7628.2	7627.1	7693.1	7657.6
30°	7397.1	7448.4	7451.5	7510.1	7468.2
32.5°	7206.8	7254.9	7268.5	7311.4	7275.8
35°	6993.5	7041.5	7057.2	7101.2	7062.5
37.5°	6763.3	6804.1	6832.3	6864.8	6834.4
40°	6519.6	6556.3	6577.2	6616.9	6577.2
42.5°	6247.8	6300.1	6329.4	6357.6	6292.8
45°	5966.4	6026.0	6038.6	6029.1	5261.5
47.5°	5668.4	5733.2	5740.6	5006.4	4865.2
50°	5340.0	5421.6	5420.5	4626.7	4589.1
52.5°	4998.0	5076.5	5073.3	4329.7	4304.6
55°	4629.8	4714.6	4140.4	4020.2	4022.3
57.5°	4254.4	4315.0	3714.8	3720.0	3650.9
60°	3846.6	3904.0	3355.0	3322.6	3203.3
62.5°	3437.7	3461.7	3006.8	2848.8	2621.9
65°	3006.8	3031.8	2632.4	2164.9	1875.1
67.5°	2564.4	2589.5	2184.7	1610.6	1588.6
70°	2118.8	1913.8	1657.7	1341.8	1352.2
72.5°	1679.6	1470.4	1083.5	1039.5	750.9
75°	1266.5	1109.6	841.9	565.8	550.1
77.5°	881.7	764.5	450.7	385.9	360.8
80°	546.9	383.8	269.8	239.5	230.0
82.5°	277.1	220.7	146.4	146.4	146.4
85°	113.0	80.6	82.7	89.9	90.9
87.5°	24.0	32.4	39.8	40.8	39.8
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)