

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: P730707

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CLI-UNV-L740
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23916.0 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

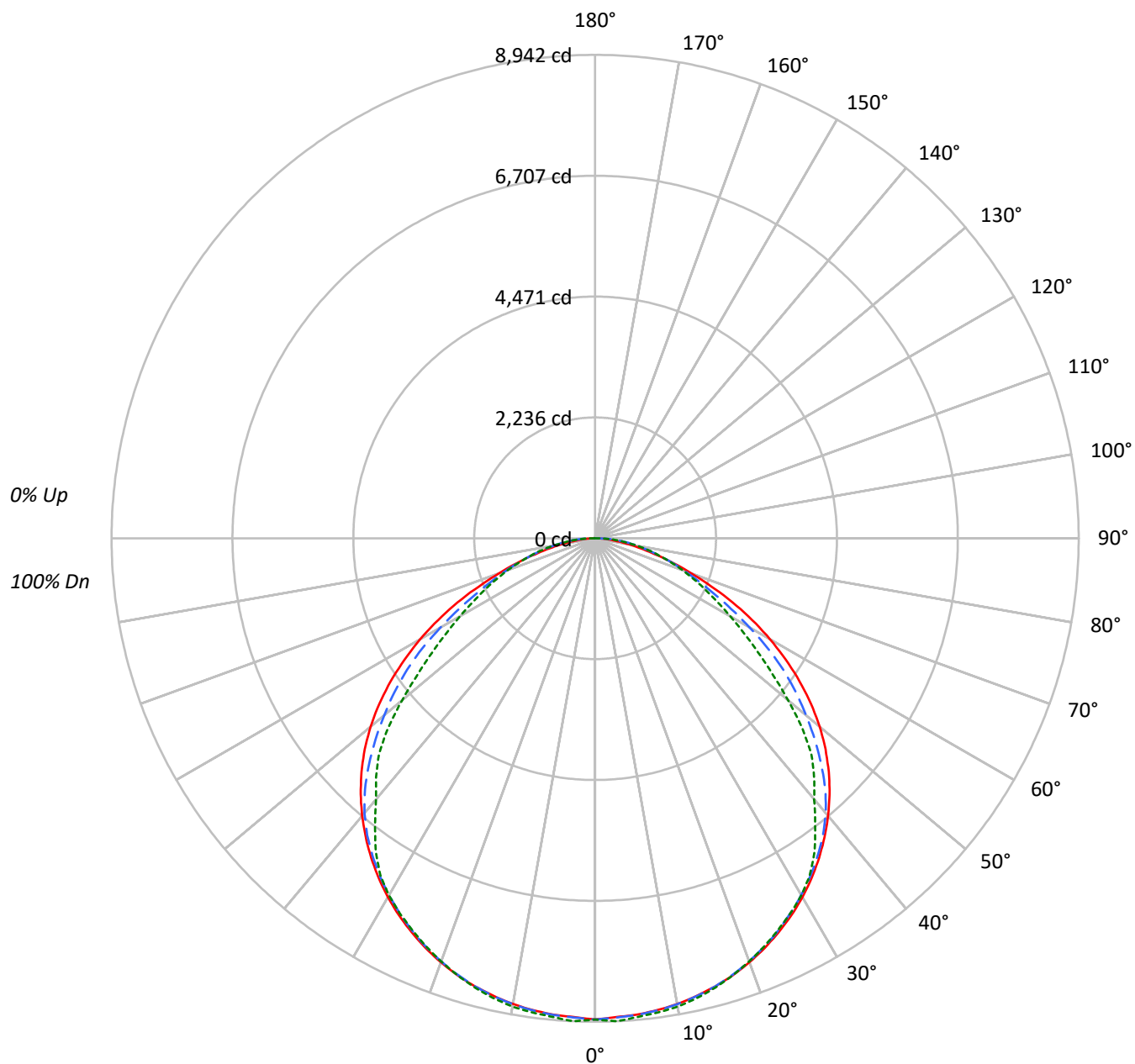
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730707

CATALOG NUMBER: HBLED-LD5-24HE-W-CLI-UNV-L740

Luminous Intensity Polar Plot





TEST NUMBER: P730707

CATALOG NUMBER: HBLED-LD5-24HE-W-CLI-UNV-L740

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	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14372	14372	14372
5°	14334	14344	14408
10°	14342	14349	14424
15°	14344	14342	14376
20°	14340	14307	14311
25°	14318	14265	14248
30°	14295	14209	14217
35°	14228	14140	13940
40°	14127	13983	13277
45°	13948	13501	12910
50°	13612	12782	11693
55°	12992	11955	10339
60°	12057	10666	9324
65°	10717	9235	8574
70°	8894	8253	8081
75°	7193	7553	7647
80°	5714	7224	7194
85°	4474	7760	7403



TEST NUMBER: P730707

CATALOG NUMBER: HBLED-LD5-24HE-W-CLI-UNV-L740

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.2	3.5
10°-20°	2428.2	10.2
20°-30°	3702.6	15.5
30°-40°	4479.6	18.7
40°-50°	4537.5	19.0
50°-60°	3750.3	15.7
60°-70°	2477.0	10.4
70°-80°	1291.6	5.4
80°-90°	404.9	1.7
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°	6975.0	29.2
0°-40°	11454.7	47.9
0°-60°	19742.5	82.5
0°-90°	23916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8902	8902	8902	8902	8902	
5°	8844	8897	8850	8889	8890	841
15°	8581	8625	8580	8607	8600	2423
25°	8037	8069	8007	8028	7998	3706
35°	7218	7228	7174	7164	7072	4515
45°	6108	6092	5913	5729	5654	4703
55°	4615	4547	4247	3834	3673	4114
65°	2805	2724	2417	2260	2244	2771
75°	1153	1173	1211	1227	1226	1256
85°	242	311	419	416	400	293
90°	0	0	0	0	0	



TEST NUMBER: P730707

CATALOG NUMBER: HBLED-LD5-24HE-W-CLI-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8901.6	8901.6	8901.6	8901.6	8901.6
2.5°	8864.3	8916.6	8872.8	8911.3	8942.3
5°	8843.9	8897.4	8850.4	8888.9	8889.9
7.5°	8804.5	8857.9	8809.7	8848.2	8847.2
10°	8747.8	8798.0	8752.0	8798.0	8798.0
12.5°	8670.9	8720.0	8675.2	8717.8	8711.4
15°	8581.1	8624.9	8580.1	8606.8	8600.3
17.5°	8475.3	8514.9	8464.6	8487.0	8474.2
20°	8346.0	8382.3	8326.8	8355.6	8328.8
22.5°	8200.6	8234.8	8178.2	8199.6	8169.6
25°	8037.2	8069.3	8007.3	8027.5	7997.6
27.5°	7860.8	7889.7	7820.2	7844.8	7821.2
30°	7667.4	7681.3	7621.5	7653.5	7625.8
32.5°	7451.5	7460.1	7407.7	7436.5	7389.6
35°	7218.5	7228.2	7173.7	7164.1	7072.2
37.5°	6969.6	6973.9	6922.6	6836.0	6684.3
40°	6702.5	6700.3	6634.1	6434.2	6299.5
42.5°	6417.1	6416.1	6299.5	6071.9	5995.0
45°	6108.3	6092.3	5912.7	5728.9	5654.1
47.5°	5777.0	5759.9	5508.8	5362.4	5192.5
50°	5419.0	5389.1	5088.8	4888.9	4655.0
52.5°	5033.2	4987.2	4681.7	4358.9	4137.7
55°	4615.4	4547.0	4246.8	3834.3	3672.9
57.5°	4180.5	4079.0	3787.2	3385.4	3254.0
60°	3733.8	3620.5	3303.1	2973.0	2887.4
62.5°	3274.3	3162.1	2838.3	2589.3	2542.2
65°	2805.2	2723.9	2417.2	2260.1	2244.2
67.5°	2324.3	2295.4	2061.4	1981.3	1974.8
70°	1884.0	1878.6	1748.3	1707.6	1711.9
72.5°	1505.7	1499.3	1480.1	1459.7	1460.8
75°	1153.1	1173.3	1210.8	1226.7	1225.8
77.5°	860.2	902.0	981.0	1013.0	1007.7
80°	614.5	676.5	776.9	806.8	773.7
82.5°	409.3	474.5	593.0	597.3	570.6
85°	241.5	310.9	418.9	415.7	399.6
87.5°	119.7	187.0	251.1	240.4	229.8
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)