

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: P730690

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730690
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-L750
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: 23253.0 lumens
Efficiency: N/A
Efficacy: 162.6 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

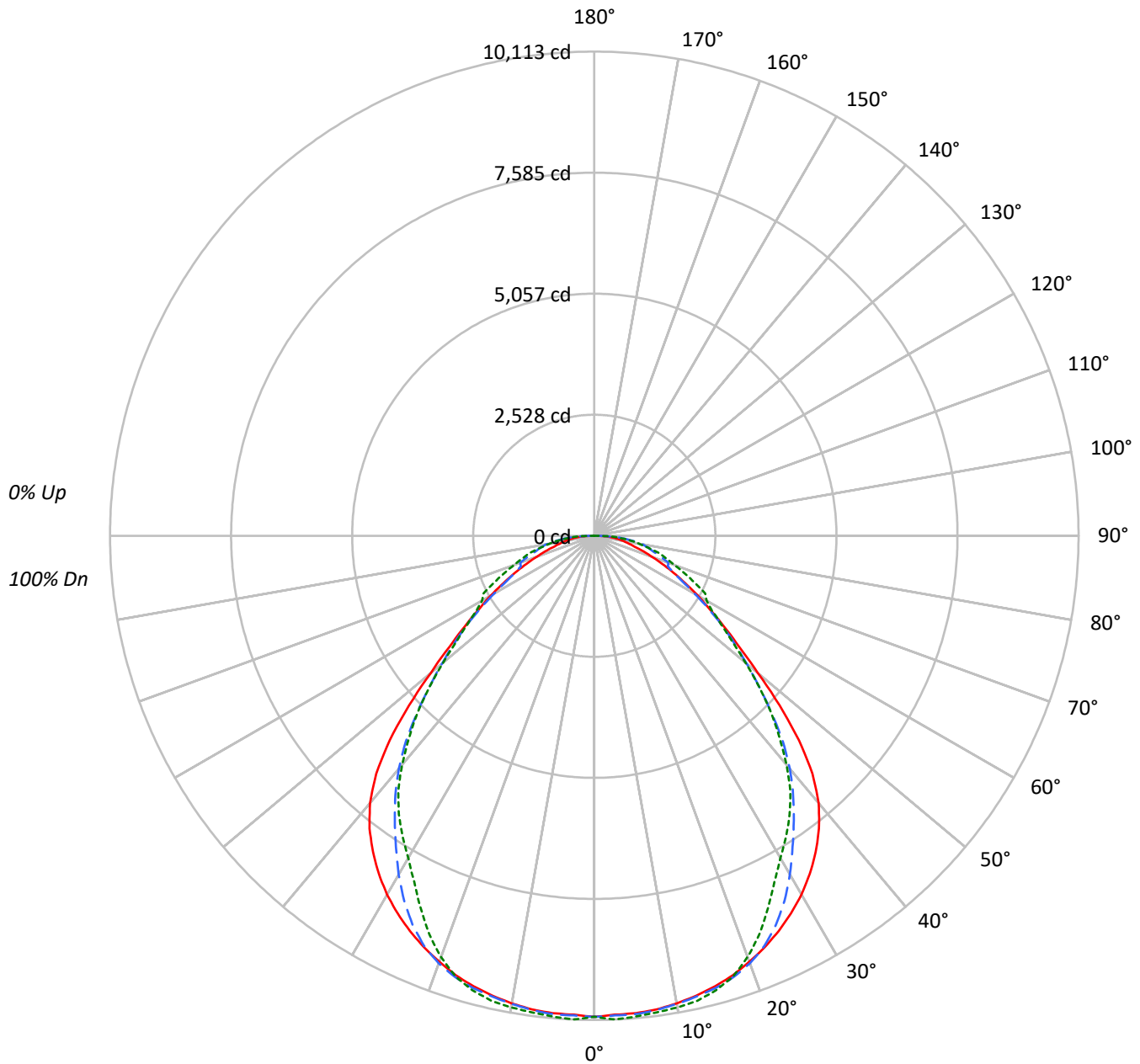
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730690

CATALOG NUMBER: HBLED-LD5-24HE-W-AI-UNV-L750

Luminous Intensity Polar Plot





TEST NUMBER: P730690

CATALOG NUMBER: HBLED-LD5-24HE-W-AI-UNV-L750

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°	16220	16220	16220
5°	16219	16254	16334
10°	16260	16280	16400
15°	16285	16346	16425
20°	16268	16329	16086
25°	16227	15984	15289
30°	16131	15230	14488
35°	15889	14314	14016
40°	15357	13384	13163
45°	13803	11951	11907
50°	11195	10410	10338
55°	9296	9123	9120
60°	8048	7814	8735
65°	6975	6932	8805
70°	6014	7776	8393
75°	5394	7970	8750
80°	5606	9382	8778
85°	6363	10811	10031



TEST NUMBER: P730690

CATALOG NUMBER: HBLED-LD5-24HE-W-AI-UNV-L750

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.5	4.1
10°-20°	2762.5	11.9
20°-30°	4102.9	17.6
30°-40°	4657.9	20.0
40°-50°	4164.0	17.9
50°-60°	2879.0	12.4
60°-70°	1899.7	8.2
70°-80°	1281.7	5.5
80°-90°	548.9	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°	7821.9	33.6
0°-40°	12479.7	53.7
0°-60°	19522.7	84.0
0°-90°	23253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10046	10046	10046	10046	10046	
5°	10007	10069	10029	10070	10078	953
15°	9742	9789	9779	9833	9826	2750
25°	9109	9195	8972	8705	8582	4197
35°	8061	7891	7262	7156	7111	5027
45°	6045	5533	5234	5274	5215	4597
55°	3302	3015	3241	3196	3240	3000
65°	1826	1621	1814	2122	2305	1822
75°	865	1088	1278	1365	1403	944
85°	344	478	584	587	542	358
90°	0	0	0	0	0	



TEST NUMBER: P730690

CATALOG NUMBER: HBLED-LD5-24HE-W-AI-UNV-L750

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10046.0	10046.0	10046.0	10046.0	10046.0
2.5°	10011.9	10074.5	10027.8	10071.1	10113.1
5°	10007.3	10068.8	10028.9	10069.9	10077.9
7.5°	9978.9	10035.7	9989.1	10028.9	10038.0
10°	9917.4	9984.6	9929.9	9991.4	10002.8
12.5°	9837.9	9906.1	9858.3	9942.4	9947.1
15°	9742.3	9788.9	9778.7	9833.2	9826.4
17.5°	9621.7	9675.2	9667.2	9680.8	9649.0
20°	9468.1	9528.4	9503.3	9440.8	9362.3
22.5°	9303.2	9375.9	9277.1	9118.9	9008.5
25°	9108.6	9195.1	8972.2	8704.8	8581.9
27.5°	8893.6	8971.0	8600.1	8272.5	8145.1
30°	8652.5	8685.4	8168.9	7857.3	7770.8
32.5°	8373.7	8326.0	7708.2	7502.3	7452.3
35°	8061.0	7891.4	7262.3	7156.5	7111.0
37.5°	7708.2	7397.8	6822.1	6773.2	6725.3
40°	7286.3	6827.7	6350.0	6318.2	6245.3
42.5°	6741.4	6207.8	5825.5	5788.0	5723.1
45°	6045.1	5533.2	5234.0	5273.8	5214.7
47.5°	5244.2	4856.4	4666.4	4775.6	4666.4
50°	4457.0	4196.6	4144.2	4243.2	4115.8
52.5°	3812.0	3577.7	3685.8	3702.8	3626.7
55°	3302.4	3014.6	3241.0	3195.5	3239.8
57.5°	2858.8	2536.8	2815.5	2763.2	2915.6
60°	2492.4	2130.7	2419.7	2408.3	2705.1
62.5°	2133.0	1844.1	2076.1	2243.3	2608.4
65°	1825.8	1621.1	1814.4	2121.6	2304.8
67.5°	1531.2	1453.8	1659.7	1830.3	2030.6
70°	1274.0	1313.9	1647.2	1615.4	1778.0
72.5°	1058.0	1193.4	1453.8	1459.5	1574.4
75°	864.6	1087.6	1277.6	1365.1	1402.7
77.5°	718.9	986.3	1153.5	1184.3	1147.8
80°	602.9	869.1	1009.0	995.4	944.1
82.5°	486.8	658.7	795.2	807.7	747.4
85°	343.5	477.8	583.6	587.0	541.5
87.5°	184.3	294.7	353.8	364.0	336.7
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)