

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: P730684

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-A-UNV-L750
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23174.0 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

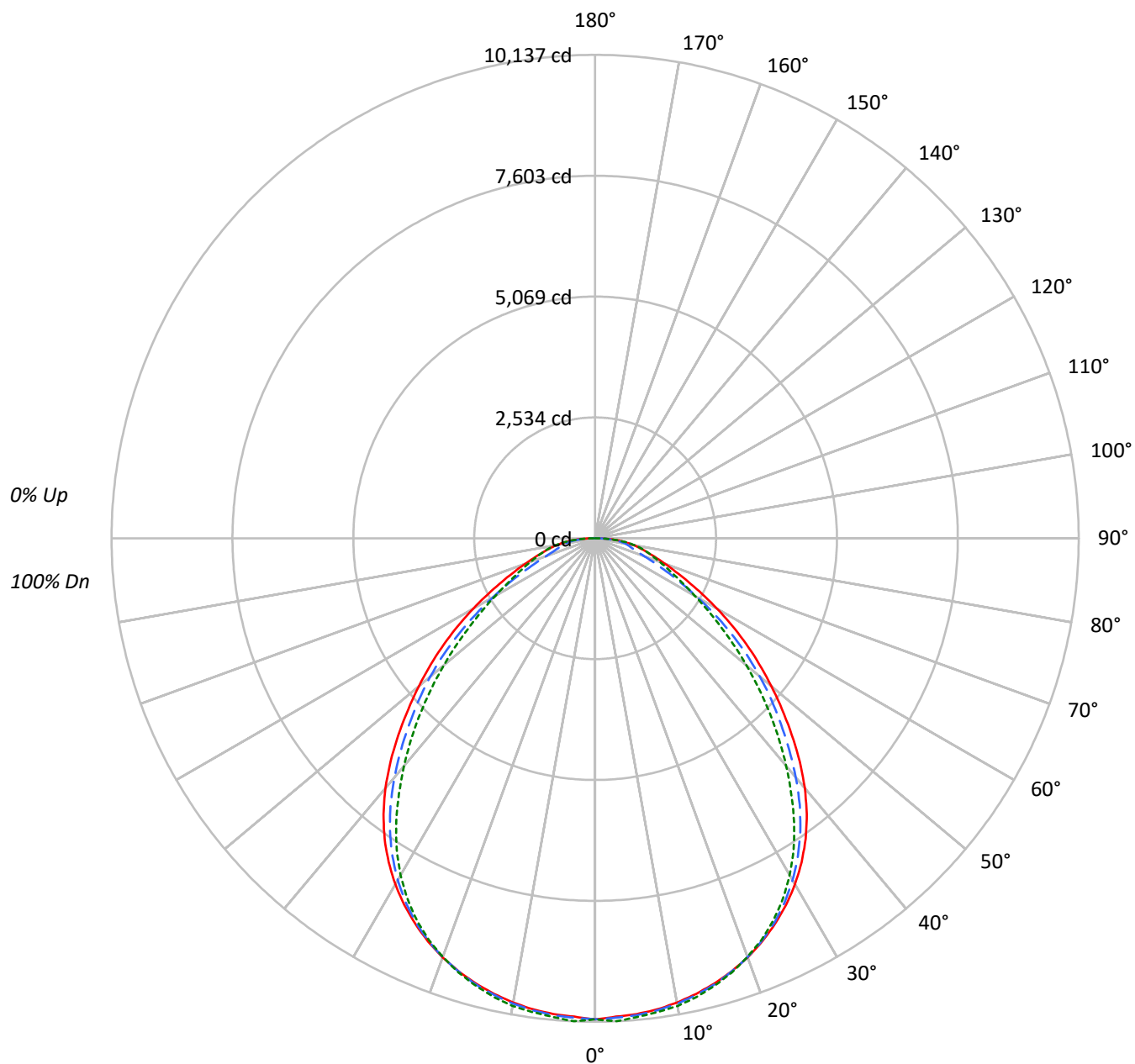
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	100	96	99	96	93		95	93	90		91
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82
3	93	83	75	70	90	81	75	69	79	73	68		76	71	67		73
4	85	74	66	60	83	73	65	60	71	64	59		68	63	58		66
5	79	67	59	52	77	66	58	52	64	57	52		62	56	51		60
6	73	61	52	46	72	60	52	46	58	51	46		56	50	45		55
7	68	55	47	41	67	55	47	41	53	46	41		52	45	41		50
8	64	51	43	37	62	50	42	37	49	42	37		48	41	37		47
9	60	47	39	34	58	46	39	34	45	38	33		44	38	33		43
10	56	43	36	31	55	43	36	31	42	35	31		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16288	16288	16288
5°	16230	16267	16334
10°	16207	16245	16327
15°	16153	16186	16224
20°	16069	16057	16045
25°	15894	15839	15750
30°	15620	15431	15206
35°	15166	14785	14330
40°	14412	13793	13131
45°	13314	12571	11810
50°	12103	11320	10388
55°	10882	9800	8980
60°	9523	8009	7792
65°	8211	6298	7033
70°	7320	5140	6778
75°	7012	5017	7083
80°	7584	5935	7891
85°	8516	7145	8599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.1	4.1
10°-20°	2736.3	11.8
20°-30°	4093.2	17.7
30°-40°	4670.0	20.2
40°-50°	4251.0	18.3
50°-60°	3121.5	13.5
60°-70°	1843.1	8.0
70°-80°	1056.2	4.6
80°-90°	446.6	1.9
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°	7785.6	33.6
0°-40°	12455.6	53.7
0°-60°	19828.1	85.6
0°-90°	23174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10088	10088	10088	10088	10088	
5°	10014	10077	10037	10077	10078	952
15°	9664	9717	9683	9717	9706	2727
25°	8922	8954	8891	8888	8841	4107
35°	7694	7657	7501	7372	7270	4794
45°	5831	5797	5505	5258	5172	4494
55°	3866	3687	3481	3229	3190	3457
65°	2149	1876	1648	1763	1841	2163
75°	1124	964	804	1049	1135	1212
85°	460	424	386	455	464	481
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10088.0	10088.0	10088.0	10088.0	10088.0
2.5°	10041.3	10099.4	10063.0	10102.8	10136.9
5°	10014.1	10076.7	10036.8	10076.7	10077.8
7.5°	9964.1	10022.0	9983.4	10026.6	10022.0
10°	9885.5	9943.5	9908.3	9955.0	9958.4
12.5°	9785.4	9841.1	9804.8	9858.3	9849.1
15°	9663.6	9717.1	9683.0	9717.1	9705.8
17.5°	9520.3	9569.2	9524.9	9562.4	9543.1
20°	9351.9	9392.9	9345.1	9380.3	9338.3
22.5°	9150.6	9186.9	9136.9	9156.2	9113.0
25°	8921.9	8953.7	8891.1	8887.7	8841.1
27.5°	8667.0	8684.1	8604.4	8577.1	8523.7
30°	8378.1	8382.6	8276.8	8225.7	8156.2
32.5°	8053.8	8042.5	7907.0	7830.8	7745.4
35°	7694.3	7656.8	7500.9	7372.4	7270.0
37.5°	7288.2	7229.0	7042.4	6852.4	6754.5
40°	6837.6	6768.2	6544.1	6308.6	6230.1
42.5°	6347.3	6288.1	6024.2	5778.4	5701.0
45°	5830.8	5796.6	5505.3	5258.5	5172.0
47.5°	5314.2	5289.2	5004.8	4753.3	4648.6
50°	4818.2	4763.6	4506.5	4231.1	4135.6
52.5°	4336.9	4225.4	3999.1	3716.9	3646.4
55°	3865.9	3687.3	3481.4	3228.9	3190.1
57.5°	3399.4	3168.5	2968.3	2779.4	2778.3
60°	2949.0	2685.0	2480.2	2381.2	2413.1
62.5°	2526.8	2256.0	2034.2	2041.0	2099.1
65°	2149.1	1876.0	1648.5	1763.4	1840.8
67.5°	1824.9	1564.3	1333.4	1547.3	1621.2
70°	1550.7	1315.2	1088.8	1356.1	1435.8
72.5°	1319.8	1121.8	918.2	1196.8	1277.6
75°	1124.1	963.6	804.3	1049.0	1135.4
77.5°	964.8	822.6	721.4	907.8	997.7
80°	815.7	690.6	638.3	771.4	848.7
82.5°	646.2	559.8	529.1	626.8	666.7
85°	459.7	424.3	385.7	455.1	464.2
87.5°	252.6	261.7	216.1	261.7	262.8
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)