

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: P730785

Luminaire Tested: **HBLED-LD5-24SE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-FLI-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22725.0 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

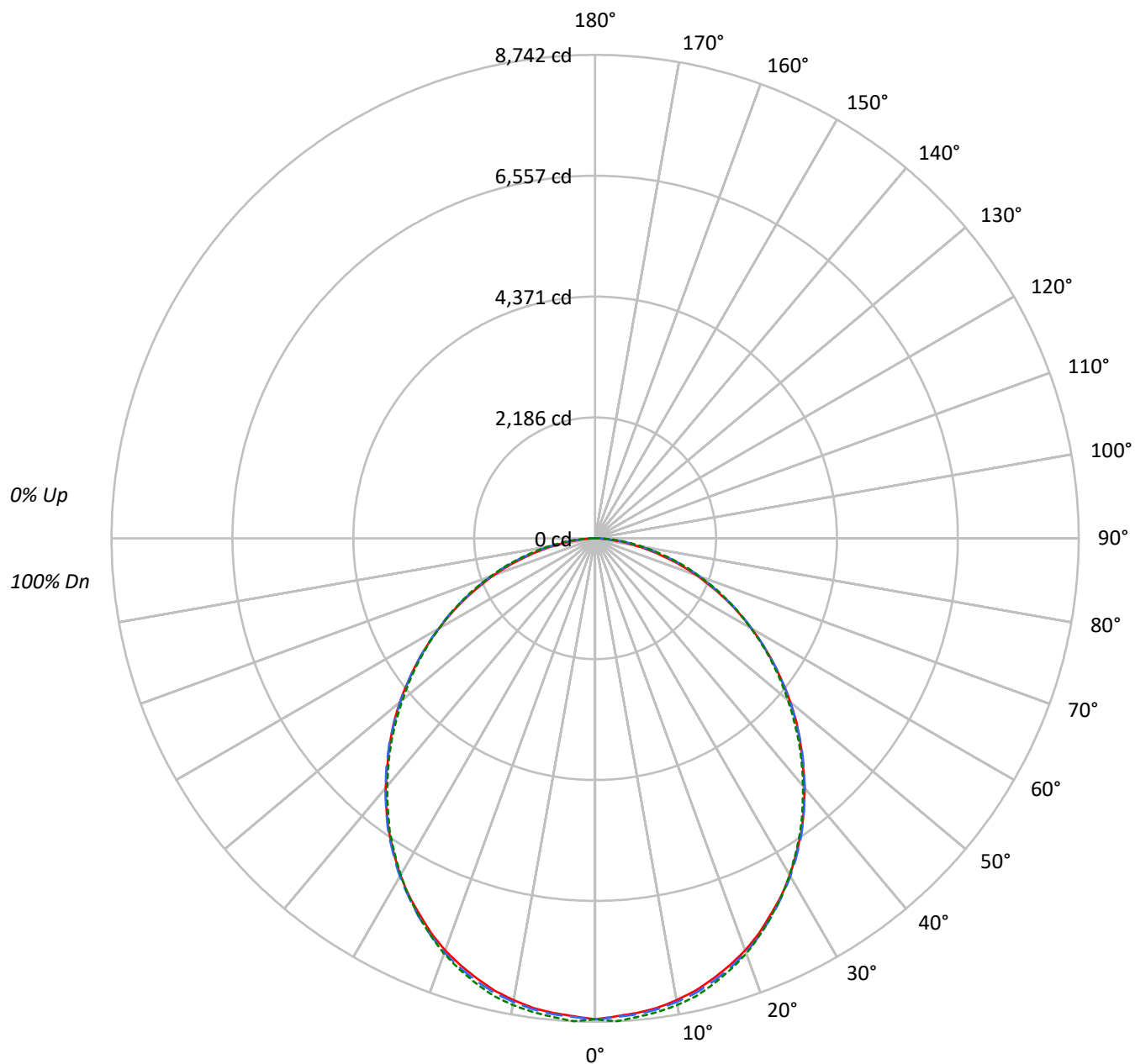
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14047	14047	14047
5°	13967	14006	14086
10°	13903	13959	14050
15°	13781	13856	13923
20°	13625	13691	13730
25°	13373	13449	13429
30°	13126	13161	13108
35°	12801	12834	12752
40°	12416	12416	12321
45°	11982	12015	11892
50°	11570	11551	11407
55°	11069	11071	10972
60°	10534	10546	10505
65°	9928	10027	10052
70°	9170	9421	9431
75°	8104	8628	8763
80°	6646	7557	7984
85°	4613	6345	7175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.8	3.6
10°-20°	2340.6	10.3
20°-30°	3478.3	15.3
30°-40°	4067.1	17.9
40°-50°	4055.0	17.8
50°-60°	3518.2	15.5
60°-70°	2598.6	11.4
70°-80°	1454.9	6.4
80°-90°	388.2	1.7
90°-100°	1.2	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°	6641.8	29.2
0°-40°	10708.8	47.1
0°-60°	18282.1	80.4
0°-90°	22723.8	100.0
90°-120°	1.2	0.0
90°-150°	1.2	0.0
90°-180°	1.0	0.0
0°-180°	22725.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8700	8700	8700	8700	8700	
5°	8617	8672	8642	8680	8691	819
15°	8244	8302	8289	8329	8330	2325
25°	7506	7567	7549	7566	7538	3461
35°	6494	6552	6511	6510	6470	4057
45°	5248	5303	5262	5240	5208	4051
55°	3932	3960	3933	3926	3898	3516
65°	2599	2624	2625	2638	2631	2570
75°	1299	1338	1383	1393	1405	1383
85°	249	301	342	373	387	302
90°	0	6	7	15	14	10
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8699.8	8699.8	8699.8	8699.8	8699.8
2.5°	8652.2	8703.7	8667.7	8702.0	8741.9
5°	8617.3	8671.6	8641.7	8679.8	8690.9
7.5°	8566.5	8619.1	8590.3	8628.4	8640.1
10°	8480.1	8537.2	8514.5	8557.6	8569.8
12.5°	8379.5	8433.1	8418.2	8468.5	8476.8
15°	8244.5	8302.1	8289.3	8329.1	8329.7
17.5°	8095.1	8149.3	8139.9	8170.9	8169.7
20°	7929.7	7987.7	7967.9	8001.6	7991.0
22.5°	7733.8	7795.8	7770.8	7799.1	7772.6
25°	7506.4	7566.8	7549.1	7565.6	7538.0
27.5°	7286.2	7341.6	7305.0	7324.9	7295.6
30°	7040.6	7087.6	7059.4	7066.1	7030.7
32.5°	6764.5	6820.4	6786.1	6785.0	6747.4
35°	6494.5	6551.5	6511.2	6510.0	6469.7
37.5°	6195.8	6248.9	6201.3	6204.1	6157.1
40°	5890.9	5936.9	5890.9	5888.7	5845.6
42.5°	5560.1	5621.0	5579.0	5583.9	5526.4
45°	5247.6	5303.4	5262.0	5240.3	5208.2
47.5°	4936.1	4960.4	4926.1	4920.5	4875.2
50°	4606.3	4624.6	4598.5	4591.9	4541.1
52.5°	4265.5	4297.1	4263.8	4255.0	4221.3
55°	3932.4	3959.5	3933.0	3926.4	3897.6
57.5°	3597.2	3632.6	3605.5	3598.8	3575.7
60°	3262.0	3272.4	3265.8	3275.7	3253.1
62.5°	2928.9	2953.2	2961.0	2958.2	2940.5
65°	2598.6	2624.0	2624.6	2637.9	2631.2
67.5°	2260.6	2293.7	2303.2	2317.0	2323.0
70°	1942.4	1967.9	1995.6	2003.8	1997.7
72.5°	1622.1	1663.0	1694.1	1701.2	1727.2
75°	1299.0	1337.7	1383.1	1393.1	1404.7
77.5°	999.2	1050.6	1091.5	1104.9	1119.2
80°	714.8	771.8	812.7	830.9	858.7
82.5°	469.2	527.3	568.7	587.0	620.8
85°	249.0	301.0	342.5	372.9	387.3
87.5°	73.6	117.8	141.6	150.4	163.2
90°	0.0	5.5	6.6	14.9	13.9
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)