

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: P730713

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730713
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-LD5-24HE-W-FLI-UNV-L740
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22861.0 lumens
Efficiency: N/A
Efficacy: 159.9 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

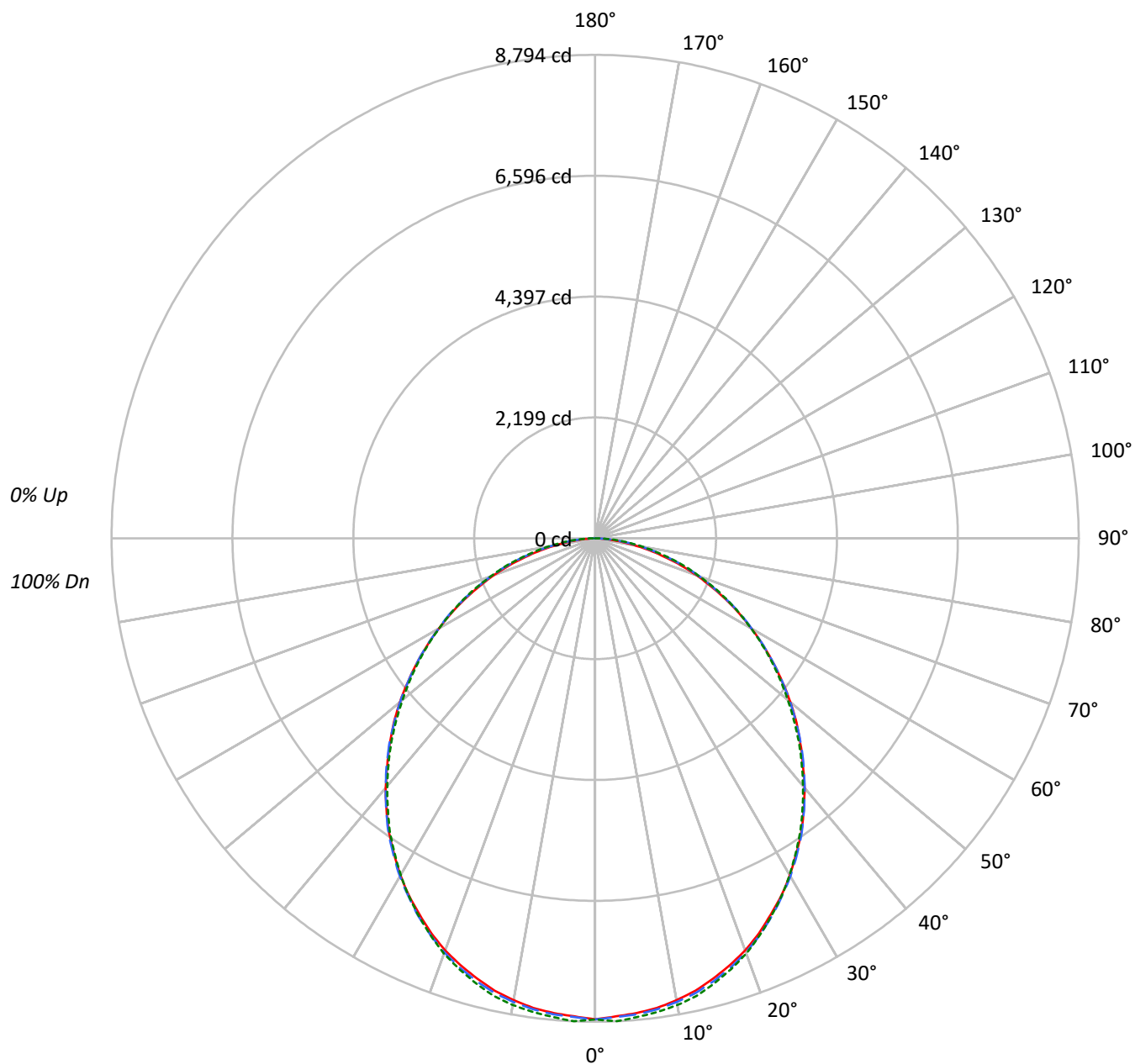
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14131	14131	14131
5°	14050	14090	14170
10°	13986	14043	14134
15°	13863	13939	14007
20°	13706	13772	13813
25°	13453	13529	13509
30°	13205	13240	13186
35°	12878	12911	12828
40°	12491	12491	12395
45°	12054	12087	11963
50°	11640	11620	11475
55°	11136	11137	11037
60°	10597	10609	10568
65°	9987	10087	10112
70°	9224	9477	9487
75°	8152	8680	8815
80°	6686	7602	8032
85°	4641	6382	7217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.7	3.6
10°-20°	2354.6	10.3
20°-30°	3499.2	15.3
30°-40°	4091.4	17.9
40°-50°	4079.3	17.8
50°-60°	3539.3	15.5
60°-70°	2614.2	11.4
70°-80°	1463.7	6.4
80°-90°	390.5	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°	6681.5	29.2
0°-40°	10772.9	47.1
0°-60°	18391.5	80.4
0°-90°	22859.8	100.0
90°-120°	1.2	0.0
90°-150°	1.2	0.0
90°-180°	1.0	0.0
0°-180°	22861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8752	8752	8752	8752	8752	
5°	8669	8724	8693	8732	8743	823
15°	8294	8352	8339	8379	8380	2339
25°	7551	7612	7594	7611	7583	3481
35°	6533	6591	6550	6549	6508	4081
45°	5279	5335	5293	5272	5239	4075
55°	3956	3983	3956	3950	3921	3537
65°	2614	2640	2640	2654	2647	2585
75°	1307	1346	1391	1401	1413	1392
85°	250	303	344	375	390	304
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°	8751.8	8751.8	8751.8	8751.8	8751.8
2.5°	8704.0	8755.8	8719.5	8754.1	8794.2
5°	8668.9	8723.5	8693.4	8731.8	8742.9
7.5°	8617.8	8670.6	8641.7	8680.1	8691.8
10°	8530.9	8588.3	8565.4	8608.9	8621.1
12.5°	8429.6	8483.6	8468.5	8519.2	8527.5
15°	8293.8	8351.7	8338.9	8379.0	8379.5
17.5°	8143.5	8198.0	8188.6	8219.8	8218.6
20°	7977.2	8035.5	8015.6	8049.5	8038.9
22.5°	7780.1	7842.5	7817.4	7845.8	7819.1
25°	7551.3	7612.1	7594.2	7610.9	7583.1
27.5°	7329.8	7385.5	7348.7	7368.8	7339.3
30°	7082.7	7130.0	7101.7	7108.3	7072.7
32.5°	6805.0	6861.2	6826.7	6825.6	6787.7
35°	6533.4	6590.7	6550.1	6549.0	6508.4
37.5°	6232.9	6286.3	6238.4	6241.2	6193.9
40°	5926.2	5972.4	5926.2	5923.9	5880.6
42.5°	5593.4	5654.6	5612.3	5617.3	5559.5
45°	5279.0	5335.2	5293.4	5271.7	5239.4
47.5°	4965.7	4990.1	4955.6	4950.0	4904.4
50°	4633.9	4652.2	4626.1	4619.4	4568.2
52.5°	4291.1	4322.8	4289.4	4280.5	4246.6
55°	3956.0	3983.2	3956.5	3949.9	3920.9
57.5°	3618.7	3654.4	3627.1	3620.4	3597.1
60°	3281.5	3292.0	3285.4	3295.3	3272.6
62.5°	2946.4	2970.9	2978.7	2975.9	2958.1
65°	2614.1	2639.8	2640.3	2653.7	2646.9
67.5°	2274.1	2307.4	2317.0	2330.8	2336.9
70°	1954.0	1979.7	2007.5	2015.8	2009.7
72.5°	1631.8	1673.0	1704.2	1711.4	1737.6
75°	1306.8	1345.7	1391.4	1401.4	1413.1
77.5°	1005.2	1056.9	1098.1	1111.5	1125.9
80°	719.1	776.4	817.6	835.9	863.8
82.5°	472.0	530.4	572.1	590.5	624.5
85°	250.5	302.8	344.5	375.1	389.6
87.5°	74.0	118.5	142.4	151.3	164.2
90°	0.0	5.6	6.7	15.0	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)