

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: P730710

Luminaire Tested: **HBLED-LD5-24HE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730710
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-L840
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: 22829.0 lumens
Efficiency: N/A
Efficacy: 159.6 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

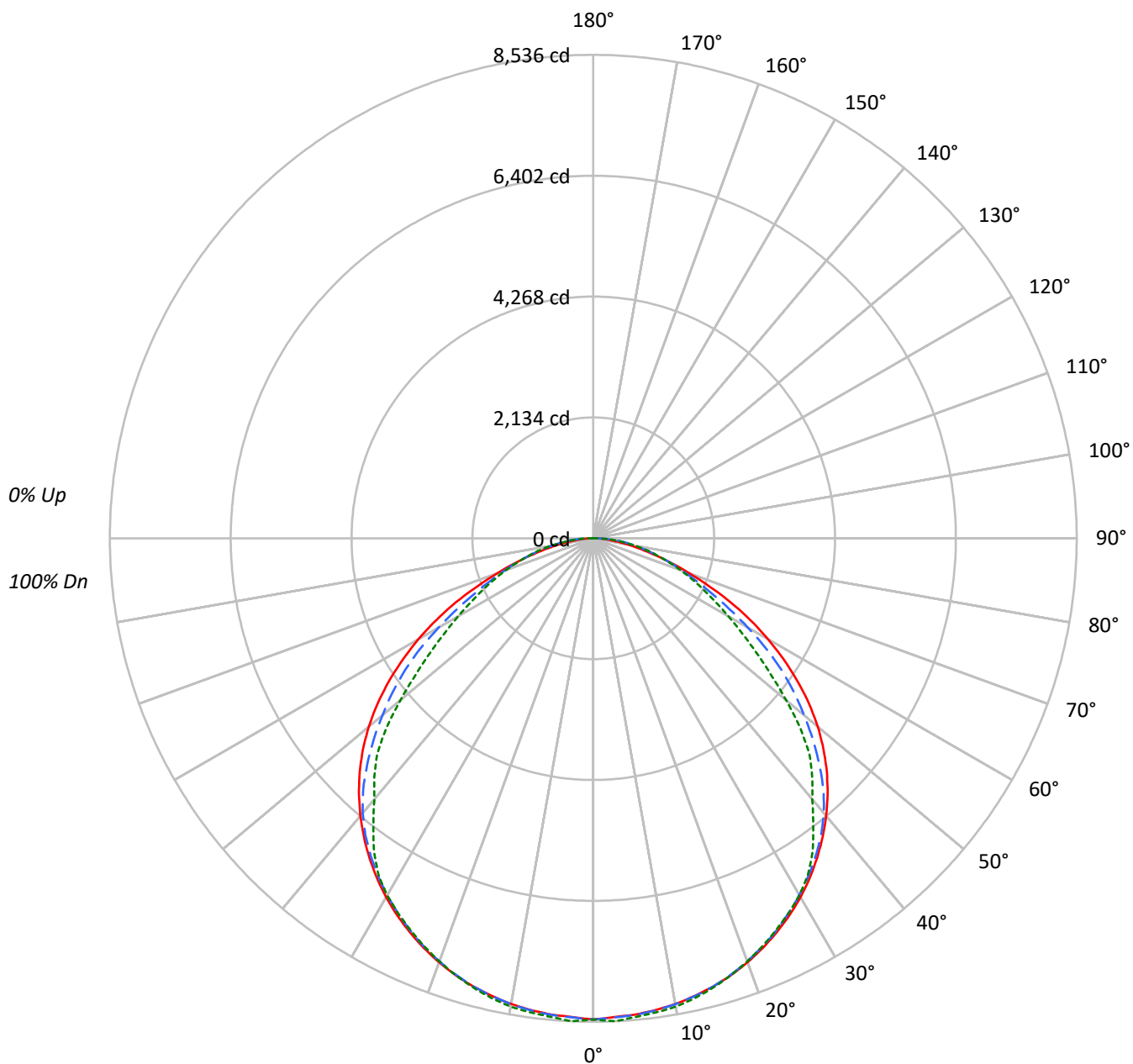
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13719	13719	13719
5°	13682	13692	13754
10°	13690	13697	13769
15°	13692	13690	13722
20°	13688	13657	13660
25°	13667	13617	13600
30°	13645	13563	13571
35°	13582	13497	13306
40°	13485	13347	12674
45°	13313	12887	12324
50°	12993	12201	11161
55°	12402	11411	9869
60°	11509	10182	8900
65°	10230	8815	8184
70°	8490	7878	7714
75°	6866	7210	7299
80°	5454	6895	6868
85°	4270	7408	7067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.8	3.5
10°-20°	2317.9	10.2
20°-30°	3534.3	15.5
30°-40°	4276.0	18.7
40°-50°	4331.2	19.0
50°-60°	3579.9	15.7
60°-70°	2364.4	10.4
70°-80°	1232.9	5.4
80°-90°	386.5	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°	6658.0	29.2
0°-40°	10934.1	47.9
0°-60°	18845.2	82.5
0°-90°	22829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8497	8497	8497	8497	8497	
5°	8442	8493	8448	8485	8486	803
15°	8191	8233	8190	8216	8209	2313
25°	7672	7702	7643	7663	7634	3537
35°	6890	6900	6848	6838	6751	4310
45°	5831	5815	5644	5468	5397	4490
55°	4406	4340	4054	3660	3506	3927
65°	2678	2600	2307	2157	2142	2645
75°	1101	1120	1156	1171	1170	1199
85°	230	297	400	397	382	280
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8497.0	8497.0	8497.0	8497.0	8497.0
2.5°	8461.4	8511.4	8469.5	8506.2	8535.8
5°	8442.0	8493.0	8448.1	8484.9	8485.9
7.5°	8404.3	8455.3	8409.3	8446.1	8445.0
10°	8350.2	8398.2	8354.3	8398.2	8398.2
12.5°	8276.8	8323.7	8280.9	8321.6	8315.5
15°	8191.1	8232.9	8190.1	8215.6	8209.4
17.5°	8090.1	8127.9	8079.9	8101.2	8089.1
20°	7966.7	8001.4	7948.3	7975.9	7950.3
22.5°	7827.9	7860.5	7806.5	7827.0	7798.3
25°	7671.9	7702.5	7643.3	7662.7	7634.1
27.5°	7503.5	7531.1	7464.7	7488.3	7465.8
30°	7318.9	7332.2	7275.1	7305.7	7279.2
32.5°	7112.9	7121.1	7071.0	7098.5	7053.7
35°	6890.5	6899.7	6847.7	6838.5	6750.8
37.5°	6652.8	6656.9	6608.0	6525.3	6380.5
40°	6397.9	6395.8	6332.6	6141.8	6013.2
42.5°	6125.4	6124.5	6013.2	5795.9	5722.6
45°	5830.6	5815.4	5643.9	5468.5	5397.1
47.5°	5514.5	5498.1	5258.4	5118.7	4956.5
50°	5172.7	5144.2	4857.5	4666.7	4443.4
52.5°	4804.5	4760.6	4468.9	4160.8	3949.7
55°	4405.6	4340.3	4053.7	3660.0	3506.0
57.5°	3990.5	3893.6	3615.1	3231.6	3106.1
60°	3564.1	3455.9	3153.0	2837.8	2756.2
62.5°	3125.4	3018.4	2709.3	2471.6	2426.7
65°	2677.7	2600.1	2307.4	2157.4	2142.2
67.5°	2218.6	2191.1	1967.7	1891.2	1885.1
70°	1798.4	1793.3	1668.8	1630.0	1634.1
72.5°	1437.3	1431.1	1412.8	1393.4	1394.4
75°	1100.7	1120.0	1155.7	1171.0	1170.1
77.5°	821.1	861.0	936.4	967.0	961.9
80°	586.6	645.7	741.6	770.2	738.6
82.5°	390.7	452.9	566.1	570.2	544.7
85°	230.5	296.8	399.9	396.8	381.5
87.5°	114.2	178.5	239.7	229.5	219.3
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)