

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: P730724

Luminaire Tested: **HBLED-LD5-24HE-W-WG-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-WG-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23664.0 lumens
Efficiency: N/A
Efficacy: 165.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

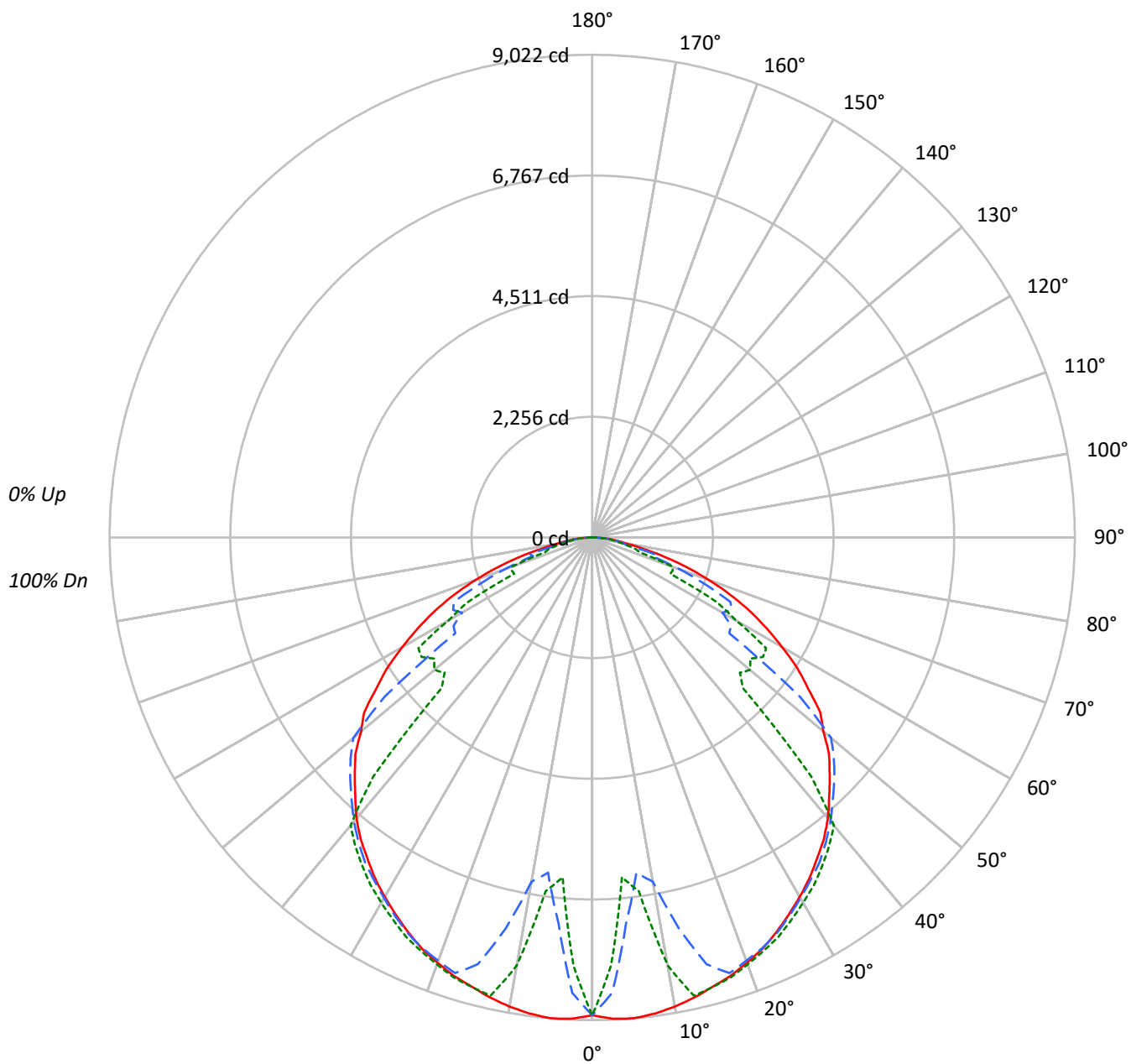
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	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	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14422	14422	14422
5°	14623	11747	10331
10°	14597	10713	13324
15°	14533	13808	14545
20°	14533	14467	14595
25°	14507	14539	14672
30°	14465	14513	14700
35°	14442	14602	14773
40°	14444	14601	14811
45°	14331	14611	9080
50°	14168	14640	9677
55°	13870	8803	10968
60°	13231	9074	10043
65°	12397	10895	6145
70°	10946	8254	7533
75°	8722	7503	5224
80°	6008	5422	4489
85°	5758	5006	4748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.3	3.0
10°-20°	2237.7	9.5
20°-30°	3681.5	15.6
30°-40°	4629.1	19.6
40°-50°	4540.0	19.2
50°-60°	3761.6	15.9
60°-70°	2653.1	11.2
70°-80°	1157.5	4.9
80°-90°	289.2	1.2
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°	6633.5	28.0
0°-40°	11262.6	47.6
0°-60°	19564.1	82.7
0°-90°	23664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8932	8932	8932	8932	8932	
5°	9022	8397	7248	6572	6374	857
15°	8694	6038	8261	8728	8702	2459
25°	8143	7451	8161	8216	8236	3753
35°	7327	7323	7408	7457	7495	4591
45°	6276	6295	6399	5667	3976	4844
55°	4927	5088	3127	3556	3896	4408
65°	3245	3436	2852	2194	1608	3190
75°	1398	1370	1203	786	837	1499
85°	311	277	270	258	256	322
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8932.4	8932.4	8932.4	8932.4	8932.4
2.5°	9006.1	8819.2	8522.2	8148.4	8016.0
5°	9022.1	8397.2	7248.0	6571.9	6374.3
7.5°	8976.2	7631.4	6318.8	6460.8	6670.2
10°	8903.6	6958.6	6534.6	7688.1	8127.1
12.5°	8810.6	6360.5	7486.2	8684.6	8772.1
15°	8694.2	6037.9	8260.6	8728.4	8701.7
17.5°	8595.9	6226.9	8538.3	8640.8	8621.5
20°	8458.1	6604.0	8419.7	8501.9	8494.5
22.5°	8319.3	7050.4	8307.5	8366.3	8366.3
25°	8143.1	7451.0	8161.2	8215.7	8236.0
27.5°	7949.7	7681.6	7978.5	8023.4	8059.7
30°	7758.5	7714.8	7784.2	7841.9	7884.6
32.5°	7556.7	7539.6	7594.1	7655.0	7709.4
35°	7327.0	7322.8	7408.2	7457.3	7494.8
37.5°	7111.3	7096.4	7175.4	7243.8	7272.6
40°	6852.8	6852.8	6927.6	6997.0	7027.0
42.5°	6558.0	6599.7	6657.4	6728.9	6060.3
45°	6276.1	6295.3	6398.9	5667.3	3976.5
47.5°	6004.7	6029.3	6127.6	3643.2	3742.6
50°	5640.6	5751.6	5828.5	3632.6	3852.6
52.5°	5374.6	5422.6	4892.9	3596.3	3720.1
55°	4927.1	5088.3	3127.3	3555.7	3896.3
57.5°	4544.7	4662.2	3075.1	3643.2	3854.7
60°	4097.2	4276.6	2810.1	3515.1	3110.2
62.5°	3667.8	3838.7	2934.0	2766.4	2633.9
65°	3244.8	3436.0	2851.8	2193.8	1608.5
67.5°	2781.2	2603.0	2275.0	1545.5	1626.7
70°	2318.8	1817.9	1748.5	1728.2	1595.7
72.5°	1843.5	1326.6	1161.0	1296.7	928.2
75°	1398.2	1370.4	1202.7	786.1	837.4
77.5°	969.8	989.0	644.0	766.8	636.5
80°	646.2	559.7	583.1	489.2	482.8
82.5°	447.5	457.1	383.4	371.7	377.1
85°	310.8	276.6	270.2	258.5	256.3
87.5°	103.6	120.7	112.2	101.5	107.9
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)