

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: P730703

Luminaire Tested: **HBLED-LD5-24HE-W-CL-WG-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CL-WG-UNV-L835
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21187.0 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

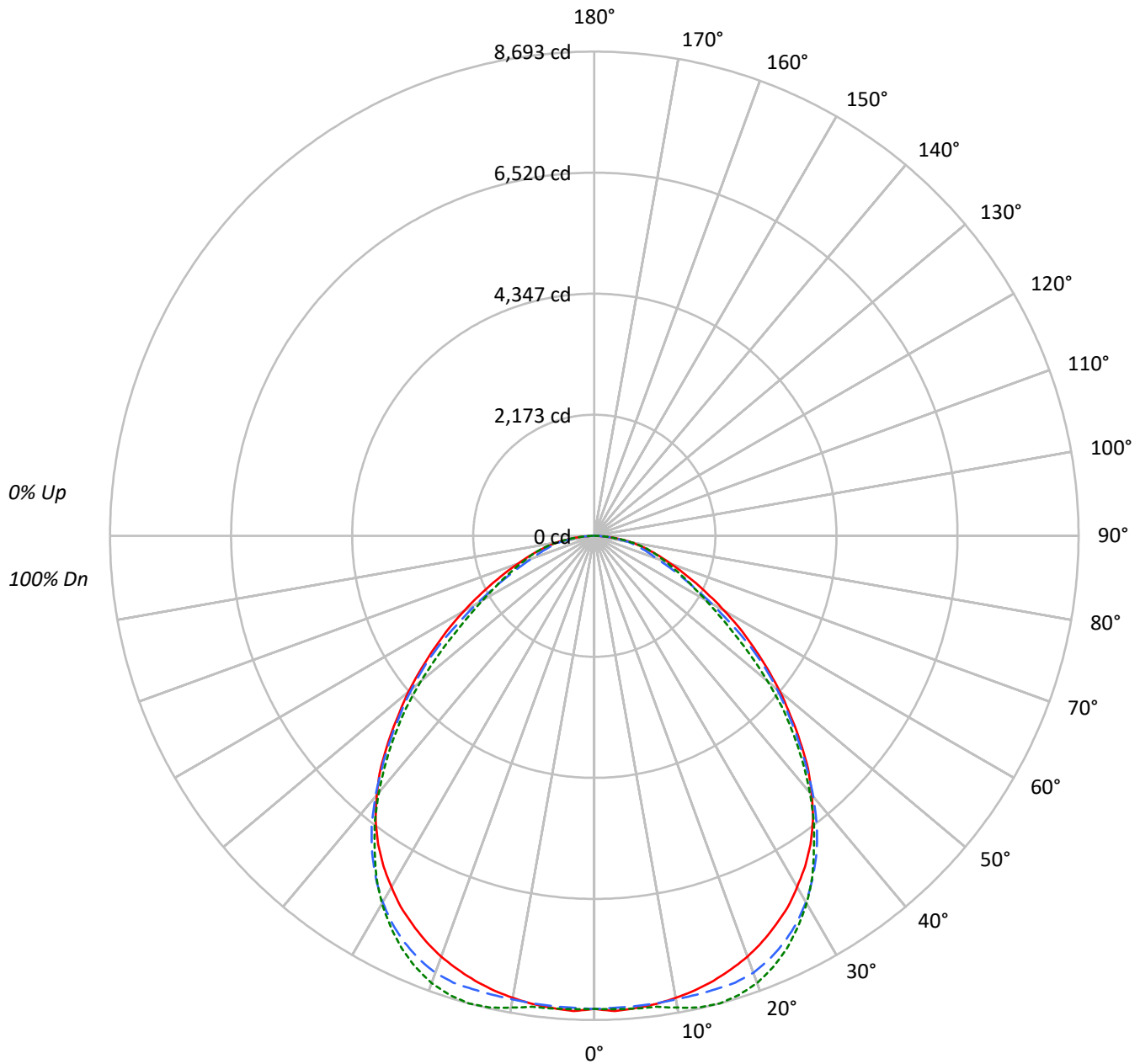
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13717	13717	13717
5°	13797	13740	13808
10°	13810	13856	14104
15°	13827	14087	14530
20°	13817	14345	14680
25°	13733	14358	14568
30°	13575	14167	14212
35°	13333	13708	13544
40°	12807	12885	12682
45°	11933	11808	11568
50°	10926	10749	10199
55°	9813	9450	8623
60°	8703	7819	7444
65°	7668	6496	6756
70°	6858	5638	6434
75°	6425	5482	6507
80°	6255	5542	6193
85°	4993	4385	4546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.3	3.8
10°-20°	2383.8	11.3
20°-30°	3667.1	17.3
30°-40°	4279.7	20.2
40°-50°	3977.0	18.8
50°-60°	2947.9	13.9
60°-70°	1802.1	8.5
70°-80°	1026.5	4.8
80°-90°	293.6	1.4
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°	6860.2	32.4
0°-40°	11139.9	52.6
0°-60°	18064.8	85.3
0°-90°	21187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8495	8495	8495	8495	8495	
5°	8513	8473	8478	8471	8520	810
15°	8272	8267	8428	8594	8693	2335
25°	7709	7768	8059	8127	8178	3551
35°	6764	6817	6955	6898	6872	4215
45°	5226	5257	5171	5090	5066	4027
55°	3486	3399	3357	3118	3063	3129
65°	2007	1823	1700	1746	1768	2009
75°	1030	966	879	1001	1043	1102
85°	270	263	237	245	245	311
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8495.4	8495.4	8495.4	8495.4	8495.4
2.5°	8541.4	8493.2	8484.4	8464.7	8508.5
5°	8512.9	8473.4	8477.8	8471.3	8519.5
7.5°	8480.0	8451.6	8469.1	8466.9	8530.5
10°	8423.1	8407.7	8451.6	8499.8	8602.8
12.5°	8359.5	8344.2	8440.6	8563.3	8675.1
15°	8271.9	8267.4	8427.5	8594.0	8692.6
17.5°	8162.3	8168.9	8412.1	8554.6	8642.2
20°	8041.8	8052.7	8348.6	8464.7	8543.6
22.5°	7886.2	7923.5	8225.8	8322.2	8383.6
25°	7708.7	7767.9	8059.3	8127.3	8177.6
27.5°	7518.1	7577.2	7853.3	7888.4	7916.9
30°	7281.4	7364.7	7599.1	7603.6	7623.2
32.5°	7040.4	7114.9	7294.6	7274.8	7279.2
35°	6764.3	6816.9	6954.9	6898.0	6871.7
37.5°	6446.6	6475.1	6562.7	6477.3	6472.8
40°	6076.2	6113.5	6113.5	5995.2	6017.1
42.5°	5681.9	5694.9	5640.2	5528.4	5546.0
45°	5226.0	5256.7	5171.2	5090.2	5066.1
47.5°	4774.6	4805.3	4715.5	4621.3	4579.7
50°	4349.6	4334.2	4279.5	4119.5	4060.3
52.5°	3909.1	3860.9	3839.1	3604.6	3536.6
55°	3486.2	3398.6	3357.0	3118.1	3063.3
57.5°	3094.0	2936.3	2857.4	2671.1	2649.2
60°	2695.2	2517.7	2421.3	2300.8	2305.1
62.5°	2333.7	2147.4	2031.3	1996.2	2011.5
65°	2007.2	1823.1	1700.4	1746.4	1768.3
67.5°	1711.4	1560.2	1422.1	1529.5	1551.3
70°	1452.8	1332.3	1194.2	1352.0	1363.0
72.5°	1238.0	1139.5	1023.3	1172.3	1196.4
75°	1029.9	966.4	878.7	1001.4	1043.0
77.5°	848.0	797.6	747.2	821.7	867.7
80°	672.7	622.3	596.0	635.4	666.1
82.5°	475.5	442.7	416.3	444.8	460.2
85°	269.5	262.9	236.7	245.4	245.4
87.5°	61.4	70.1	78.9	72.3	61.4
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)