

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: P730705

Luminaire Tested: **HBLED-LD5-24HE-W-CL-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730705
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-L850
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: 22225.0 lumens
Efficiency: N/A
Efficacy: 155.4 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

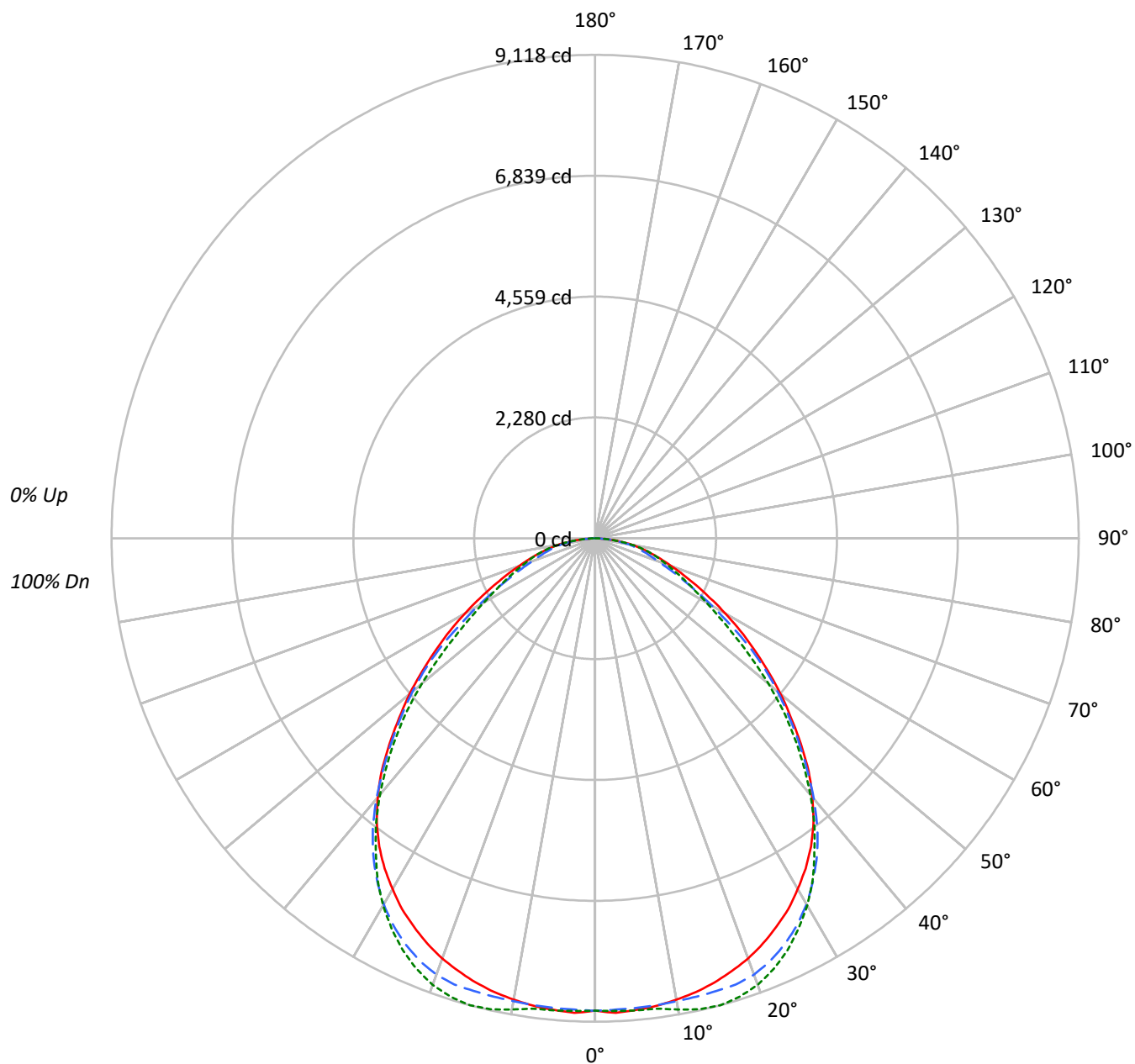
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14389	14389	14389
5°	14473	14414	14485
10°	14486	14535	14795
15°	14504	14777	15242
20°	14494	15047	15399
25°	14406	15061	15282
30°	14240	14862	14909
35°	13986	14380	14208
40°	13434	13517	13304
45°	12518	12386	12135
50°	11461	11276	10699
55°	10294	9913	9046
60°	9130	8202	7808
65°	8044	6815	7087
70°	7194	5914	6749
75°	6739	5750	6825
80°	6561	5813	6497
85°	5237	4600	4768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.9	3.8
10°-20°	2500.6	11.3
20°-30°	3846.8	17.3
30°-40°	4489.4	20.2
40°-50°	4171.9	18.8
50°-60°	3092.3	13.9
60°-70°	1890.4	8.5
70°-80°	1076.8	4.8
80°-90°	308.0	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°	7196.3	32.4
0°-40°	11685.7	52.6
0°-60°	18949.9	85.3
0°-90°	22225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8912	8912	8912	8912	8912	
5°	8930	8889	8893	8886	8937	850
15°	8677	8672	8840	9015	9118	2449
25°	8086	8148	8454	8525	8578	3725
35°	7096	7151	7296	7236	7208	4421
45°	5482	5514	5425	5340	5314	4224
55°	3657	3565	3522	3271	3213	3282
65°	2106	1912	1784	1832	1855	2107
75°	1080	1014	922	1050	1094	1156
85°	283	276	248	257	257	326
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8911.6	8911.6	8911.6	8911.6	8911.6
2.5°	8959.9	8909.3	8900.0	8879.4	8925.3
5°	8930.0	8888.6	8893.1	8886.3	8936.9
7.5°	8895.5	8865.6	8884.0	8881.7	8948.4
10°	8835.8	8819.6	8865.6	8916.2	9024.2
12.5°	8769.1	8753.0	8854.1	8982.8	9100.1
15°	8677.2	8672.5	8840.3	9015.0	9118.5
17.5°	8562.2	8569.1	8824.2	8973.7	9065.6
20°	8435.8	8447.3	8757.6	8879.4	8962.2
22.5°	8272.6	8311.7	8628.8	8730.0	8794.3
25°	8086.4	8148.4	8454.2	8525.4	8578.3
27.5°	7886.4	7948.5	8238.1	8274.8	8304.8
30°	7638.2	7725.5	7971.4	7976.1	7996.7
32.5°	7385.3	7463.5	7652.0	7631.3	7635.8
35°	7095.7	7150.8	7295.6	7235.9	7208.3
37.5°	6762.4	6792.3	6884.2	6794.6	6790.0
40°	6373.9	6413.0	6413.0	6288.9	6311.9
42.5°	5960.2	5973.9	5916.6	5799.3	5817.7
45°	5482.1	5514.3	5424.6	5339.6	5314.3
47.5°	5008.6	5040.8	4946.5	4847.7	4804.1
50°	4562.7	4546.5	4489.2	4321.3	4259.3
52.5°	4100.7	4050.1	4027.1	3781.2	3709.9
55°	3657.0	3565.1	3521.5	3270.8	3213.4
57.5°	3245.6	3080.1	2997.4	2802.0	2779.0
60°	2827.3	2641.1	2539.9	2413.5	2418.1
62.5°	2448.0	2252.6	2130.8	2094.0	2110.1
65°	2105.5	1912.4	1783.7	1832.0	1854.9
67.5°	1795.2	1636.6	1491.8	1604.4	1627.3
70°	1524.0	1397.6	1252.8	1418.3	1429.7
72.5°	1298.6	1195.3	1073.4	1229.7	1255.0
75°	1080.3	1013.7	921.7	1050.5	1094.1
77.5°	889.5	836.7	783.8	862.0	910.2
80°	705.6	652.8	625.2	666.5	698.7
82.5°	498.8	464.4	436.7	466.6	482.7
85°	282.7	275.8	248.3	257.4	257.4
87.5°	64.4	73.5	82.8	75.9	64.4
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)