

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: P730701

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730701
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-L740
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: 22835.0 lumens
Efficiency: N/A
Efficacy: 159.7 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

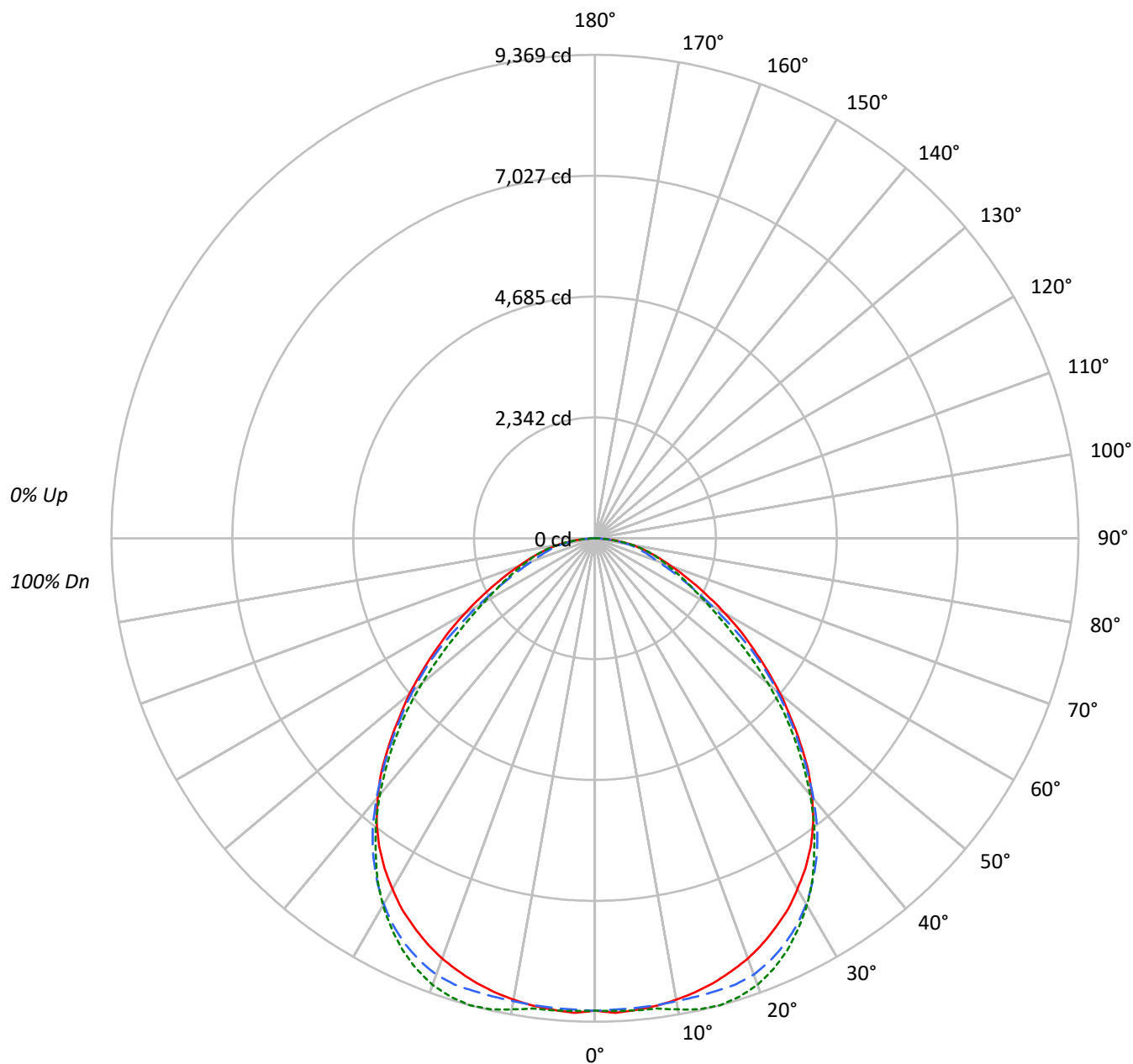
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	14783	14783	14783
5°	14871	14809	14882
10°	14884	14934	15201
15°	14902	15183	15660
20°	14892	15460	15822
25°	14801	15474	15702
30°	14631	15270	15318
35°	14370	14775	14598
40°	13803	13888	13669
45°	12861	12726	12468
50°	11775	11586	10992
55°	10577	10185	9294
60°	9380	8427	8023
65°	8265	7002	7281
70°	7392	6076	6935
75°	6924	5908	7013
80°	6741	5973	6675
85°	5382	4726	4900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	872.2	3.8
10°-20°	2569.2	11.3
20°-30°	3952.4	17.3
30°-40°	4612.6	20.2
40°-50°	4286.4	18.8
50°-60°	3177.2	13.9
60°-70°	1942.3	8.5
70°-80°	1106.3	4.8
80°-90°	316.4	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°	7393.8	32.4
0°-40°	12006.4	52.6
0°-60°	19470.0	85.3
0°-90°	22835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9156	9156	9156	9156	9156	
5°	9175	9132	9137	9130	9182	873
15°	8915	8910	9083	9262	9369	2516
25°	8308	8372	8686	8759	8814	3827
35°	7290	7347	7496	7434	7406	4543
45°	5632	5666	5574	5486	5460	4340
55°	3757	3663	3618	3361	3302	3372
65°	2163	1965	1833	1882	1906	2165
75°	1110	1042	947	1079	1124	1188
85°	290	283	255	264	264	335
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9156.2	9156.2	9156.2	9156.2	9156.2
2.5°	9205.8	9153.8	9144.3	9123.1	9170.3
5°	9175.1	9132.5	9137.2	9130.2	9182.2
7.5°	9139.6	9109.0	9127.8	9125.4	9194.0
10°	9078.3	9061.7	9109.0	9160.9	9271.9
12.5°	9009.7	8993.3	9097.2	9229.4	9349.9
15°	8915.3	8910.5	9083.0	9262.4	9368.7
17.5°	8797.2	8804.3	9066.4	9220.0	9314.4
20°	8667.3	8679.1	8997.9	9123.1	9208.2
22.5°	8499.7	8539.8	8865.7	8969.6	9035.7
25°	8308.3	8372.1	8686.2	8759.4	8813.7
27.5°	8102.9	8166.6	8464.2	8502.0	8532.7
30°	7847.8	7937.5	8190.2	8195.0	8216.2
32.5°	7588.0	7668.3	7862.0	7840.7	7845.4
35°	7290.5	7347.1	7495.9	7434.5	7406.2
37.5°	6948.0	6978.7	7073.1	6981.1	6976.3
40°	6548.9	6589.0	6589.0	6461.5	6485.1
42.5°	6123.8	6137.9	6079.0	5958.5	5977.3
45°	5632.5	5665.6	5573.5	5486.2	5460.2
47.5°	5146.0	5179.1	5082.3	4980.8	4935.9
50°	4687.9	4671.3	4612.4	4439.9	4376.2
52.5°	4213.2	4161.3	4137.7	3885.0	3811.7
55°	3757.4	3663.0	3618.1	3360.6	3301.6
57.5°	3334.6	3164.7	3079.7	2878.9	2855.2
60°	2904.9	2713.6	2609.6	2479.7	2484.4
62.5°	2515.2	2314.4	2189.3	2151.5	2168.0
65°	2163.3	1964.9	1832.7	1882.2	1905.8
67.5°	1844.5	1681.5	1532.7	1648.4	1672.0
70°	1565.8	1435.9	1287.1	1457.2	1469.0
72.5°	1334.3	1228.1	1102.9	1263.5	1289.4
75°	1110.0	1041.5	947.0	1079.3	1124.2
77.5°	913.9	859.7	805.3	885.7	935.2
80°	725.0	670.7	642.4	684.8	717.9
82.5°	512.5	477.1	448.7	479.4	496.0
85°	290.5	283.4	255.1	264.5	264.5
87.5°	66.1	75.5	85.0	77.9	66.1
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)