

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: P730767

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CL-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23083.0 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

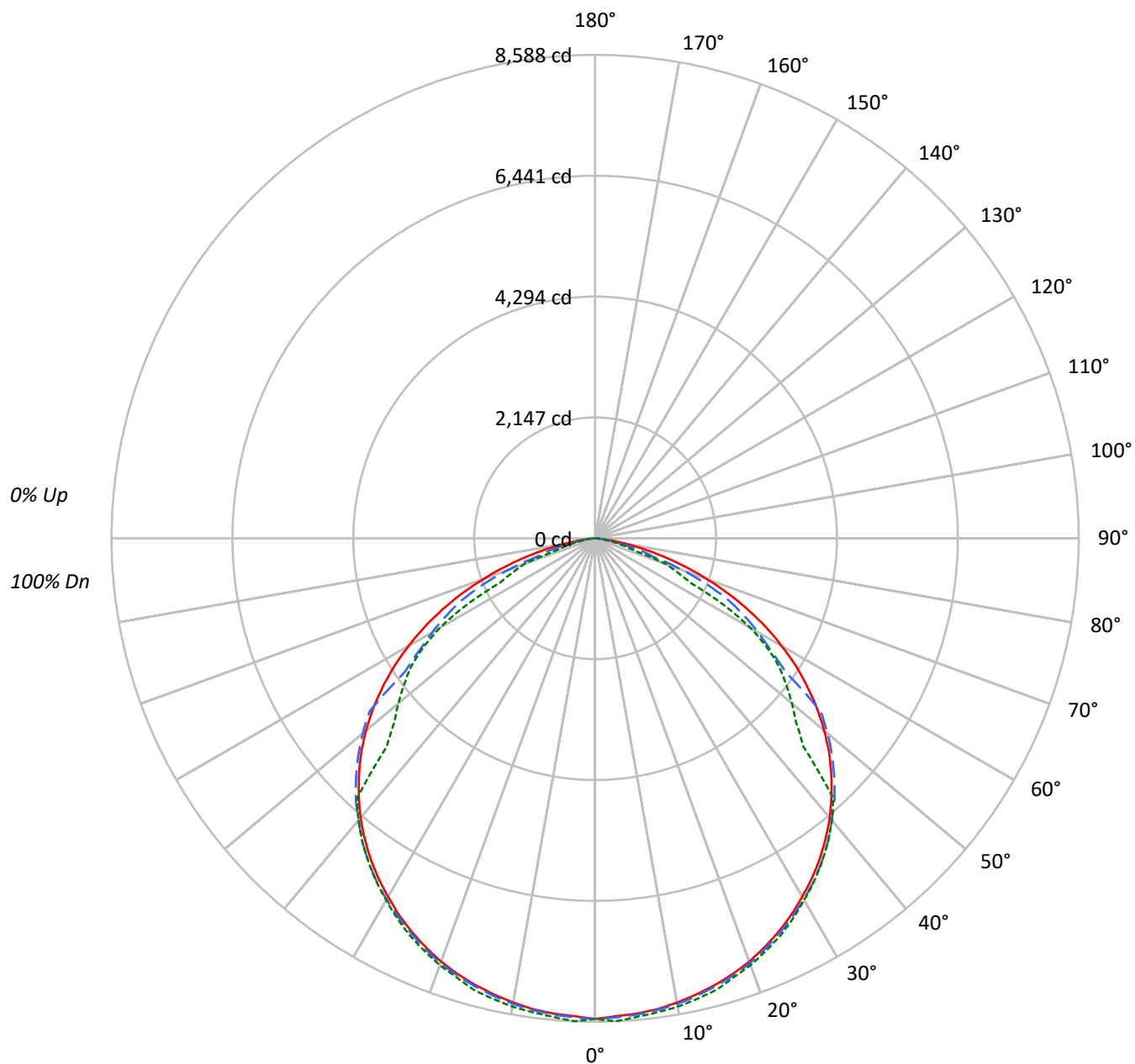
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13786	13786	13786
5°	13736	13766	13833
10°	13734	13774	13854
15°	13733	13775	13887
20°	13751	13802	13867
25°	13735	13787	13870
30°	13709	13810	13841
35°	13703	13827	13838
40°	13660	13780	13780
45°	13543	13706	11942
50°	13333	13535	11459
55°	12955	11586	11255
60°	12347	10770	10283
65°	11419	9997	7121
70°	9943	7779	6346
75°	7854	5221	3411
80°	5055	2494	2126
85°	2080	1523	1675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.9	3.5
10°-20°	2334.5	10.1
20°-30°	3579.2	15.5
30°-40°	4386.8	19.0
40°-50°	4510.0	19.5
50°-60°	3849.1	16.7
60°-70°	2544.7	11.0
70°-80°	942.8	4.1
80°-90°	126.1	0.5
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°	6723.6	29.1
0°-40°	11110.4	48.1
0°-60°	19469.5	84.3
0°-90°	23083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8538	8538	8538	8538	8538	
5°	8475	8534	8494	8527	8535	806
15°	8216	8266	8241	8303	8308	2321
25°	7710	7750	7739	7808	7786	3555
35°	6952	7000	7015	7059	7020	4348
45°	5931	5990	6003	5993	5230	4571
55°	4602	4687	4116	3996	3998	4107
65°	2989	3014	2617	2152	1864	2947
75°	1259	1103	837	562	547	1351
85°	112	80	82	89	90	186
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8538.3	8538.3	8538.3	8538.3	8538.3
2.5°	8496.7	8549.8	8518.5	8558.0	8588.2
5°	8474.9	8534.1	8493.6	8526.8	8535.2
7.5°	8437.5	8492.5	8455.1	8498.8	8492.5
10°	8377.2	8427.1	8401.1	8446.9	8449.9
12.5°	8300.3	8350.1	8326.2	8382.3	8381.3
15°	8216.0	8266.0	8240.9	8303.4	8307.6
17.5°	8117.3	8163.0	8144.3	8201.5	8178.6
20°	8002.9	8042.4	8033.0	8087.1	8070.4
22.5°	7862.5	7903.1	7893.8	7956.2	7931.1
25°	7709.8	7750.3	7738.8	7808.5	7785.7
27.5°	7544.5	7582.9	7581.8	7647.4	7612.1
30°	7353.1	7404.1	7407.3	7465.4	7423.8
32.5°	7164.0	7211.7	7225.3	7268.0	7232.6
35°	6951.9	6999.7	7015.3	7059.0	7020.5
37.5°	6723.1	6763.7	6791.7	6824.0	6793.8
40°	6480.9	6517.3	6538.1	6577.6	6538.1
42.5°	6210.6	6262.7	6291.7	6319.8	6255.4
45°	5931.0	5990.2	6002.7	5993.3	5230.2
47.5°	5634.7	5699.2	5706.5	4976.7	4836.3
50°	5308.2	5389.4	5388.3	4599.2	4561.9
52.5°	4968.3	5046.3	5043.2	4304.0	4279.1
55°	4602.3	4686.6	4115.8	3996.3	3998.4
57.5°	4229.1	4289.4	3692.7	3697.8	3629.2
60°	3823.7	3880.8	3335.1	3302.9	3184.3
62.5°	3417.2	3441.1	2988.9	2831.9	2606.3
65°	2988.9	3013.8	2616.7	2152.0	1864.0
67.5°	2549.2	2574.1	2171.7	1601.0	1579.1
70°	2106.2	1902.5	1647.8	1333.9	1344.2
72.5°	1669.6	1461.7	1077.0	1033.3	746.4
75°	1259.0	1103.0	836.9	562.5	546.8
77.5°	876.4	759.9	448.1	383.6	358.7
80°	543.7	381.5	268.2	238.1	228.7
82.5°	275.5	219.4	145.6	145.6	145.6
85°	112.3	80.1	82.2	89.4	90.4
87.5°	23.9	32.2	39.5	40.6	39.5
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)