

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: P730796

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730796
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-LD5-24SE-W-WG-UNV-L735
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23523.0 lumens
Efficiency: N/A
Efficacy: 156.8 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

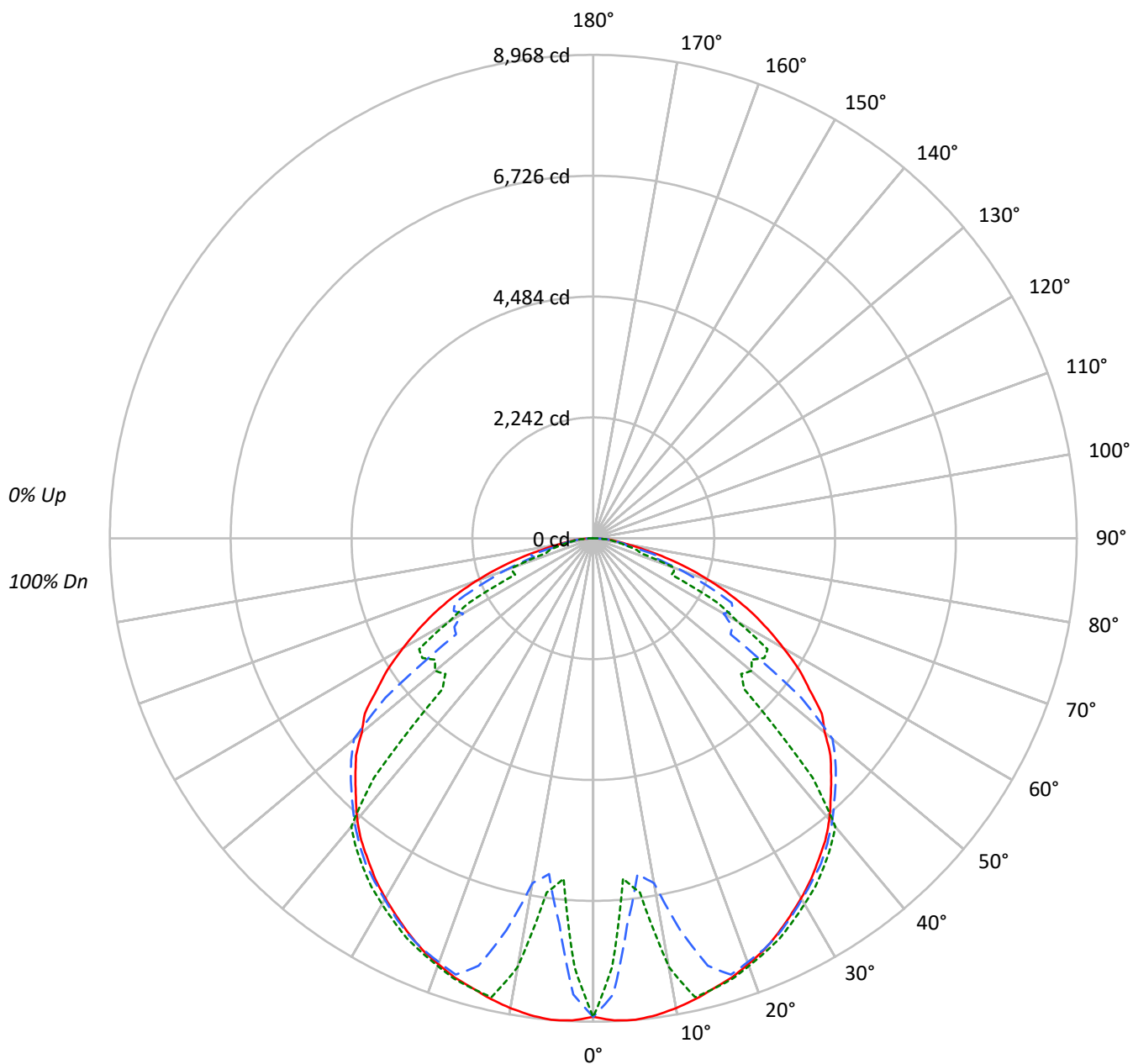
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	74	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	41	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	37	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	33	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	30	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14336	14336	14336
5°	14536	11677	10270
10°	14510	10650	13245
15°	14446	13726	14459
20°	14446	14381	14508
25°	14421	14453	14585
30°	14379	14426	14612
35°	14356	14515	14684
40°	14358	14514	14722
45°	14245	14524	9026
50°	14084	14553	9620
55°	13787	8751	10903
60°	13152	9020	9984
65°	12323	10830	6108
70°	10881	8205	7488
75°	8670	7458	5193
80°	5973	5390	4462
85°	5722	4976	4720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.0	3.0
10°-20°	2224.4	9.5
20°-30°	3659.6	15.6
30°-40°	4601.5	19.6
40°-50°	4512.9	19.2
50°-60°	3739.2	15.9
60°-70°	2637.3	11.2
70°-80°	1150.6	4.9
80°-90°	287.5	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°	6594.0	28.0
0°-40°	11195.5	47.6
0°-60°	19447.6	82.7
0°-90°	23523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8879	8879	8879	8879	8879	
5°	8968	8347	7205	6533	6336	852
15°	8642	6002	8211	8676	8650	2444
25°	8095	7407	8113	8167	8187	3731
35°	7283	7279	7364	7413	7450	4563
45°	6239	6258	6361	5634	3953	4816
55°	4898	5058	3109	3534	3873	4382
65°	3226	3416	2835	2181	1599	3171
75°	1390	1362	1196	781	832	1490
85°	309	275	269	257	255	320
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8879.2	8879.2	8879.2	8879.2	8879.2
2.5°	8952.4	8766.6	8471.5	8099.8	7968.2
5°	8968.4	8347.2	7204.8	6532.8	6336.3
7.5°	8922.7	7586.0	6281.2	6422.3	6630.4
10°	8850.5	6917.1	6495.6	7642.3	8078.6
12.5°	8758.1	6322.6	7441.5	8632.9	8719.9
15°	8642.4	6001.9	8211.4	8676.4	8649.8
17.5°	8544.7	6189.8	8487.4	8589.3	8570.2
20°	8407.7	6564.6	8369.6	8451.3	8443.8
22.5°	8269.7	7008.4	8258.0	8316.5	8316.5
25°	8094.6	7406.6	8112.6	8166.8	8187.0
27.5°	7902.3	7635.8	7931.0	7975.6	8011.7
30°	7712.3	7668.8	7737.8	7795.2	7837.6
32.5°	7511.7	7494.7	7548.8	7609.4	7663.5
35°	7283.4	7279.1	7364.1	7412.9	7450.1
37.5°	7068.9	7054.1	7132.6	7200.6	7229.3
40°	6812.0	6812.0	6886.3	6955.3	6985.1
42.5°	6518.9	6560.4	6617.7	6688.8	6024.2
45°	6238.7	6257.8	6360.7	5633.5	3952.8
47.5°	5968.9	5993.4	6091.1	3621.5	3720.3
50°	5606.9	5717.3	5793.8	3611.0	3829.7
52.5°	5342.6	5390.3	4863.7	3574.8	3698.0
55°	4897.8	5058.0	3108.7	3534.5	3873.1
57.5°	4517.7	4634.5	3056.7	3621.5	3831.7
60°	4072.8	4251.1	2793.3	3494.2	3091.7
62.5°	3645.9	3815.8	2916.6	2749.9	2618.2
65°	3225.5	3415.5	2834.8	2180.8	1598.9
67.5°	2764.7	2587.5	2261.5	1536.3	1617.0
70°	2305.0	1807.1	1738.1	1717.9	1586.2
72.5°	1832.5	1318.7	1154.1	1289.0	922.6
75°	1389.8	1362.2	1195.5	781.4	832.4
77.5°	964.0	983.2	640.2	762.3	632.7
80°	642.4	556.4	579.7	486.2	479.9
82.5°	444.9	454.4	381.1	369.4	374.8
85°	308.9	275.0	268.6	257.0	254.8
87.5°	102.9	120.0	111.5	100.9	107.3
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)