

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: P730766

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730766
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-L735
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: 22404.0 lumens
Efficiency: N/A
Efficacy: 149.4 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

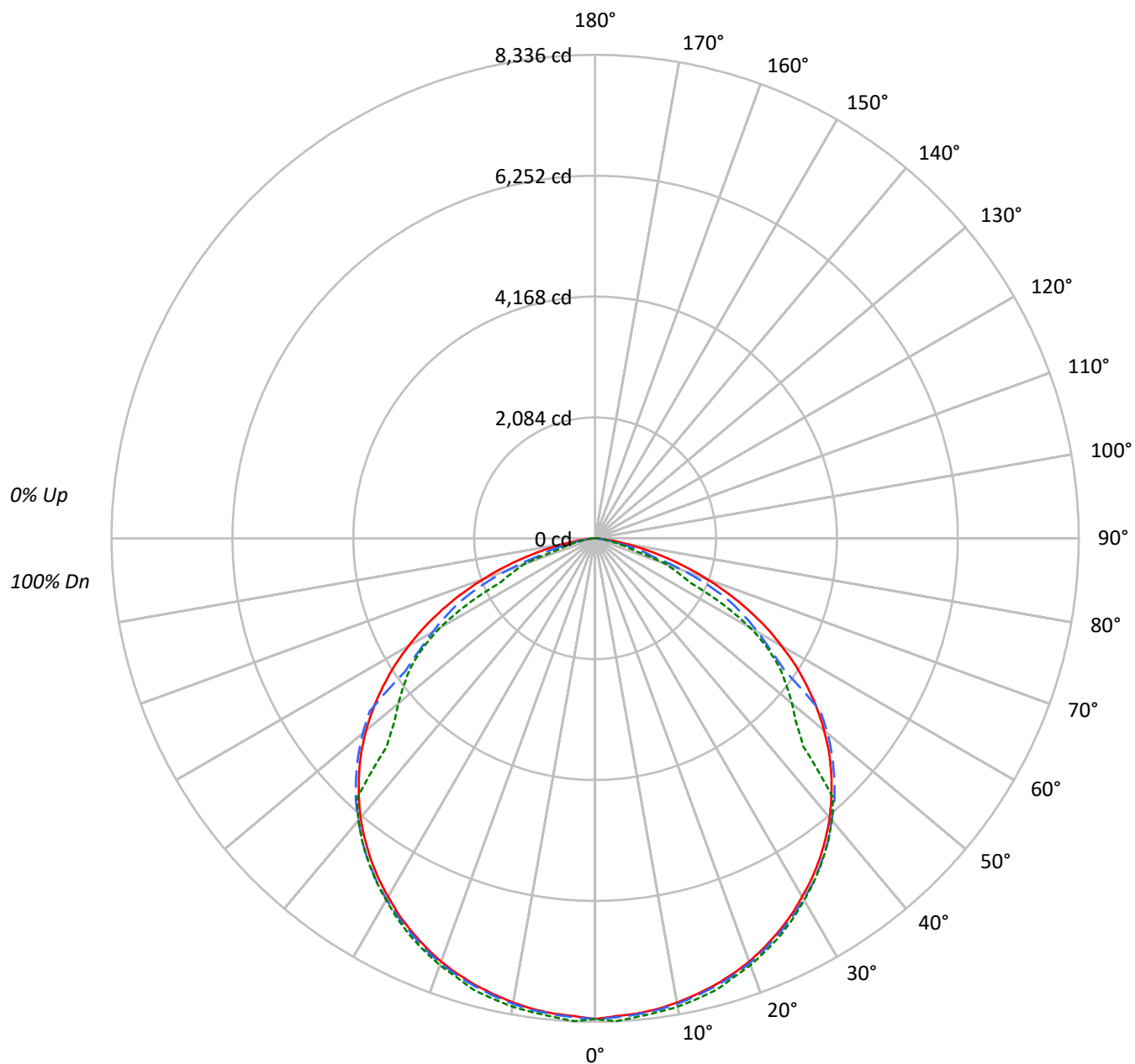
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13380	13380	13380
5°	13332	13361	13426
10°	13330	13368	13446
15°	13329	13370	13478
20°	13346	13396	13459
25°	13331	13381	13462
30°	13306	13404	13434
35°	13299	13421	13431
40°	13258	13375	13375
45°	13144	13303	11591
50°	12941	13136	11122
55°	12574	11245	10924
60°	11984	10453	9980
65°	11083	9703	6912
70°	9651	7550	6159
75°	7623	5067	3311
80°	4907	2420	2063
85°	2019	1478	1625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.1	3.5
10°-20°	2265.8	10.1
20°-30°	3473.9	15.5
30°-40°	4257.8	19.0
40°-50°	4377.3	19.5
50°-60°	3735.8	16.7
60°-70°	2469.8	11.0
70°-80°	915.1	4.1
80°-90°	122.4	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°	6525.8	29.1
0°-40°	10783.6	48.1
0°-60°	18896.7	84.3
0°-90°	22404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8287	8287	8287	8287	8287	
5°	8226	8283	8244	8276	8284	782
15°	7974	8023	7998	8059	8063	2252
25°	7483	7522	7511	7579	7557	3450
35°	6747	6794	6809	6851	6814	4220
45°	5756	5814	5826	5817	5076	4436
55°	4467	4549	3995	3879	3881	3986
65°	2901	2925	2540	2089	1809	2860
75°	1222	1071	812	546	531	1311
85°	109	78	80	87	88	180
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8287.2	8287.2	8287.2	8287.2	8287.2
2.5°	8246.8	8298.3	8267.9	8306.3	8335.5
5°	8225.6	8283.1	8243.7	8276.0	8284.1
7.5°	8189.3	8242.7	8206.4	8248.8	8242.7
10°	8130.8	8179.2	8154.0	8198.4	8201.3
12.5°	8056.1	8104.5	8081.3	8135.7	8134.7
15°	7974.3	8022.8	7998.5	8059.1	8063.2
17.5°	7878.5	7922.9	7904.7	7960.3	7938.0
20°	7767.5	7805.8	7796.7	7849.2	7833.0
22.5°	7631.2	7670.6	7661.6	7722.1	7697.8
25°	7483.0	7522.3	7511.2	7578.8	7556.6
27.5°	7322.6	7359.8	7358.8	7422.4	7388.1
30°	7136.8	7186.3	7189.4	7245.8	7205.5
32.5°	6953.3	6999.6	7012.8	7054.2	7019.9
35°	6747.4	6793.8	6808.9	6851.3	6814.0
37.5°	6525.4	6564.7	6592.0	6623.2	6594.0
40°	6290.3	6325.6	6345.8	6384.1	6345.8
42.5°	6027.9	6078.4	6106.7	6133.9	6071.3
45°	5756.5	5814.0	5826.1	5817.0	5076.4
47.5°	5469.0	5531.5	5538.6	4830.3	4694.0
50°	5152.1	5230.8	5229.8	4463.9	4427.7
52.5°	4822.2	4897.9	4894.8	4177.4	4153.2
55°	4466.9	4548.7	3994.7	3878.7	3880.7
57.5°	4104.7	4163.2	3584.1	3589.1	3522.5
60°	3711.2	3766.7	3237.0	3205.7	3090.6
62.5°	3316.7	3339.9	2901.0	2748.6	2529.6
65°	2901.0	2925.2	2539.8	2088.7	1809.2
67.5°	2474.2	2498.4	2107.8	1553.9	1532.7
70°	2044.3	1846.5	1599.4	1294.6	1304.6
72.5°	1620.5	1418.7	1045.4	1003.0	724.4
75°	1222.0	1070.6	812.3	545.9	530.7
77.5°	850.6	737.6	434.9	372.3	348.1
80°	527.7	370.3	260.3	231.1	221.9
82.5°	267.4	212.9	141.3	141.3	141.3
85°	109.0	77.7	79.8	86.7	87.7
87.5°	23.2	31.3	38.4	39.4	38.4
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)