

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: P730763

Luminaire Tested: **HBLED-LD5-24SE-W-AI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-AI-UNV-L835
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20942.0 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

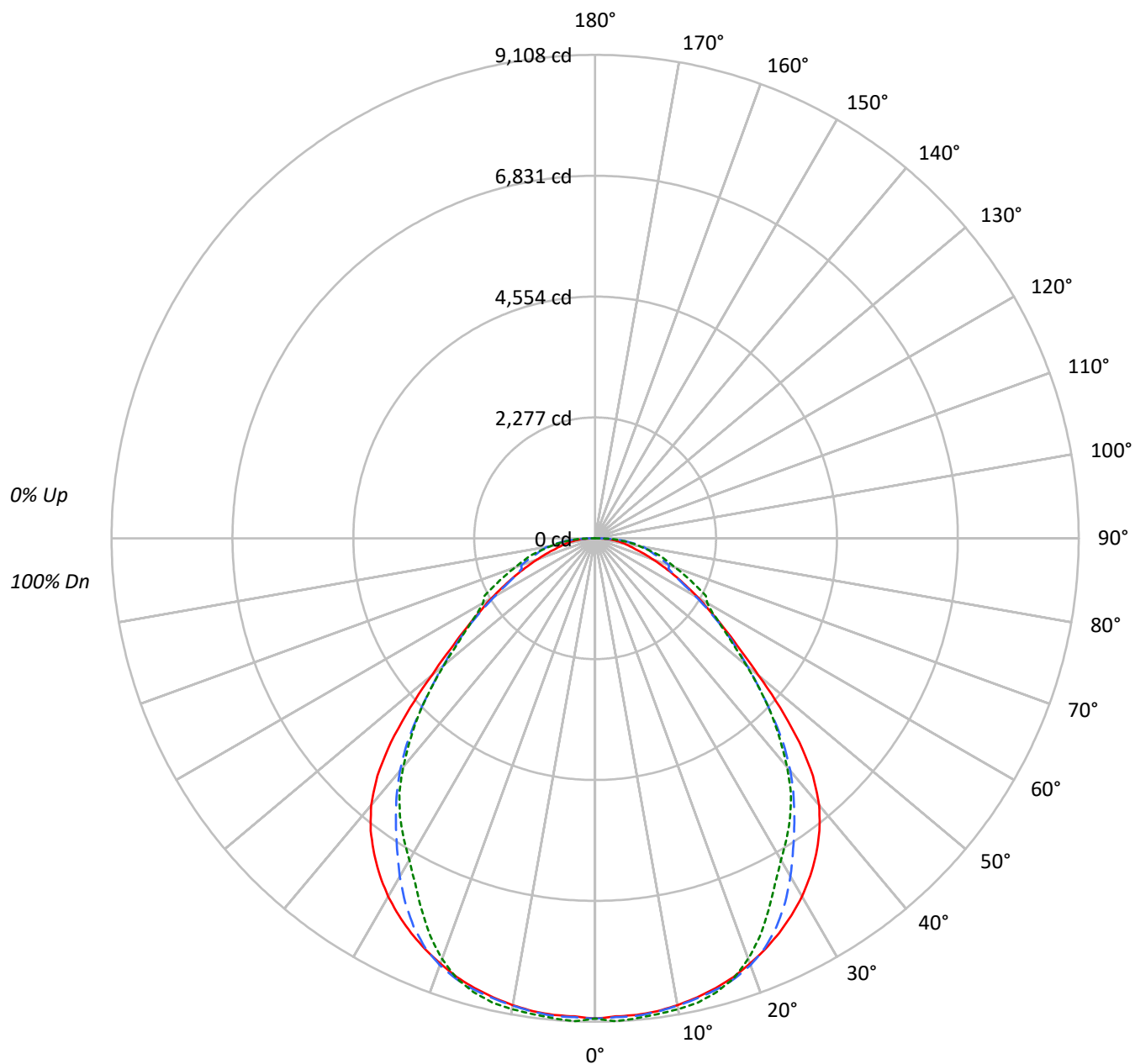
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	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	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14608	14608	14608
5°	14607	14639	14710
10°	14644	14662	14770
15°	14666	14721	14793
20°	14651	14706	14488
25°	14614	14395	13769
30°	14528	13716	13048
35°	14309	12892	12623
40°	13831	12054	11855
45°	12431	10763	10724
50°	10083	9375	9311
55°	8372	8217	8213
60°	7249	7037	7867
65°	6282	6243	7930
70°	5417	7003	7559
75°	4858	7178	7881
80°	5049	8449	7906
85°	5732	9737	9035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.4	4.1
10°-20°	2487.9	11.9
20°-30°	3695.1	17.6
30°-40°	4195.0	20.0
40°-50°	3750.1	17.9
50°-60°	2592.9	12.4
60°-70°	1710.9	8.2
70°-80°	1154.3	5.5
80°-90°	494.4	2.4
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°	7044.5	33.6
0°-40°	11239.4	53.7
0°-60°	17582.4	84.0
0°-90°	20942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9048	9048	9048	9048	9048	
5°	9013	9068	9032	9069	9076	858
15°	8774	8816	8807	8856	8850	2477
25°	8203	8281	8080	7840	7729	3780
35°	7260	7107	6541	6445	6404	4527
45°	5444	4983	4714	4750	4696	4140
55°	2974	2715	2919	2878	2918	2701
65°	1644	1460	1634	1911	2076	1641
75°	779	980	1151	1230	1263	850
85°	309	430	526	529	488	323
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9047.6	9047.6	9047.6	9047.6	9047.6
2.5°	9016.9	9073.2	9031.2	9070.2	9108.0
5°	9012.7	9068.1	9032.2	9069.1	9076.3
7.5°	8987.1	9038.3	8996.3	9032.2	9040.4
10°	8931.8	8992.3	8943.0	8998.4	9008.7
12.5°	8860.1	8921.6	8878.5	8954.3	8958.5
15°	8774.0	8816.0	8806.8	8856.0	8849.8
17.5°	8665.4	8713.6	8706.4	8718.7	8690.0
20°	8527.1	8581.4	8558.9	8502.5	8431.8
22.5°	8378.6	8444.1	8355.1	8212.6	8113.2
25°	8203.3	8281.2	8080.5	7839.7	7729.0
27.5°	8009.7	8079.4	7745.4	7450.4	7335.6
30°	7792.6	7822.2	7357.1	7076.4	6998.5
32.5°	7541.5	7498.5	6942.1	6756.7	6711.7
35°	7259.8	7107.1	6540.6	6445.3	6404.3
37.5°	6942.1	6662.5	6144.1	6100.0	6056.9
40°	6562.1	6149.2	5718.9	5690.3	5624.6
42.5°	6071.4	5590.8	5246.6	5212.8	5154.4
45°	5444.3	4983.3	4713.8	4749.7	4696.4
47.5°	4723.0	4373.7	4202.6	4301.0	4202.6
50°	4014.0	3779.5	3732.4	3821.5	3706.8
52.5°	3433.2	3222.1	3319.5	3334.8	3266.2
55°	2974.2	2715.0	2918.9	2877.9	2917.8
57.5°	2574.7	2284.7	2535.7	2488.6	2625.9
60°	2244.7	1919.0	2179.2	2168.9	2436.3
62.5°	1921.0	1660.8	1869.7	2020.4	2349.2
65°	1644.4	1459.9	1634.1	1910.8	2075.7
67.5°	1379.0	1309.3	1494.7	1648.4	1828.8
70°	1147.4	1183.3	1483.5	1454.8	1601.3
72.5°	952.8	1074.8	1309.3	1314.5	1417.9
75°	778.7	979.5	1150.6	1229.5	1263.3
77.5°	647.5	888.3	1038.9	1066.6	1033.8
80°	543.0	782.7	908.7	896.5	850.3
82.5°	438.4	593.2	716.2	727.5	673.1
85°	309.4	430.3	525.6	528.7	487.7
87.5°	166.0	265.4	318.7	327.8	303.2
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)