

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: P730793

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-UNV-L835
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23744.0 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

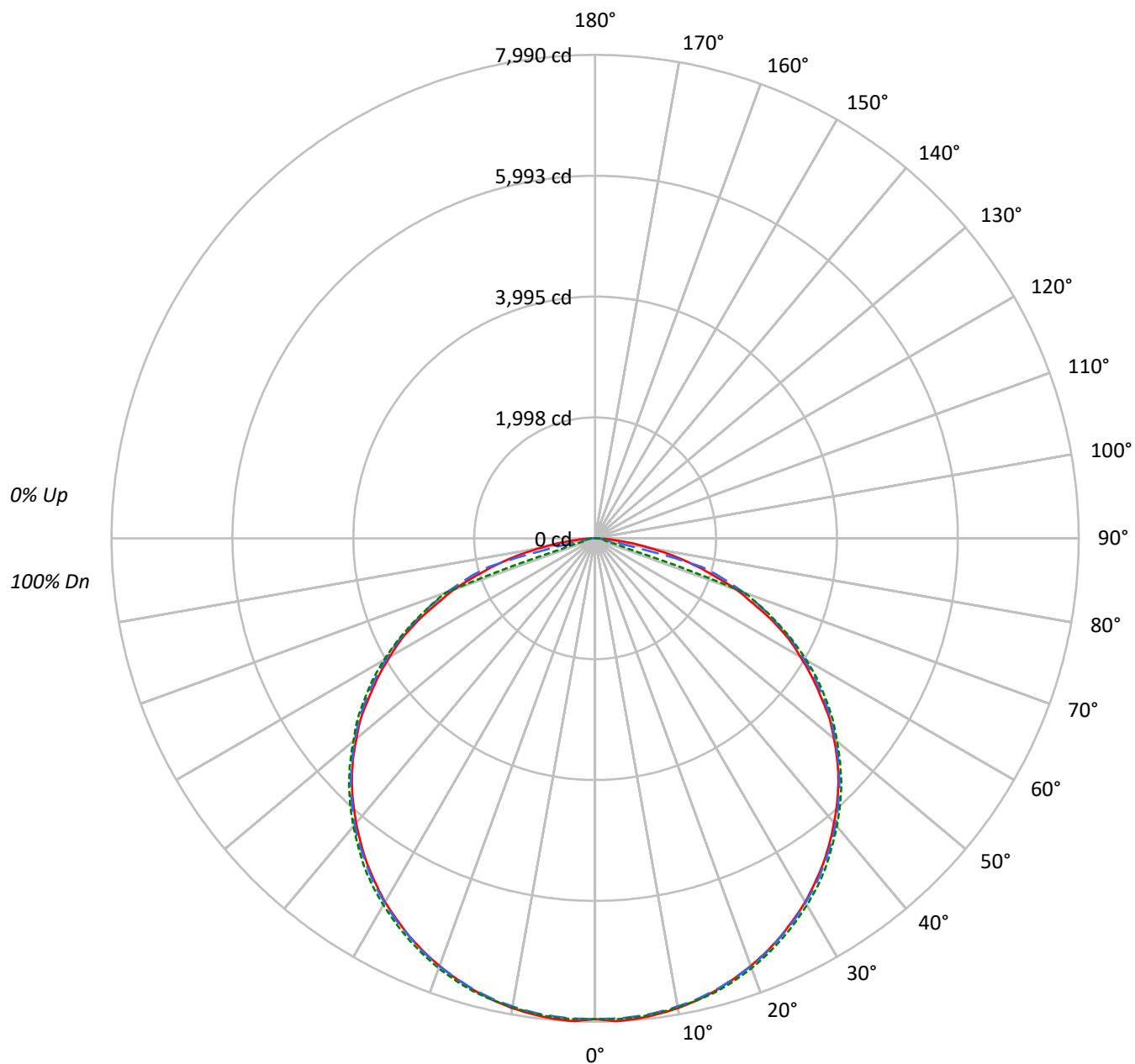
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12829	12829	12829
5°	12921	12855	12878
10°	12928	12881	12908
15°	12926	12908	12968
20°	12925	12928	12995
25°	12931	12938	13017
30°	12945	12962	13048
35°	12943	12985	13093
40°	12945	13027	13098
45°	12981	13030	13135
50°	12942	13018	13102
55°	12800	12979	13118
60°	12654	12860	13020
65°	12375	12632	12726
70°	11748	12249	12399
75°	10478	11362	1369
80°	8426	1415	1498
85°	5608	1836	1869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.6	3.2
10°-20°	2180.5	9.2
20°-30°	3350.3	14.1
30°-40°	4124.3	17.4
40°-50°	4396.9	18.5
50°-60°	4110.2	17.3
60°-70°	3253.8	13.7
70°-80°	1384.3	5.8
80°-90°	189.0	0.8
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°	6285.4	26.5
0°-40°	10409.7	43.8
0°-60°	18916.9	79.7
0°-90°	23744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7945	7945	7945	7945	7945	
5°	7972	7937	7931	7899	7945	758
15°	7733	7719	7722	7701	7758	2183
25°	7259	7250	7262	7259	7306	3347
35°	6567	6556	6588	6611	6643	4109
45°	5685	5653	5706	5729	5752	4381
55°	4547	4561	4611	4627	4660	4072
65°	3239	3267	3306	3331	3331	3186
75°	1680	1752	1821	297	220	1777
85°	303	90	99	103	101	395
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7945.4	7945.4	7945.4	7945.4	7945.4
2.5°	7989.7	7952.5	7945.4	7913.6	7956.0
5°	7972.0	7936.6	7931.3	7899.4	7945.4
7.5°	7934.8	7906.5	7902.9	7869.3	7915.3
10°	7885.2	7858.7	7856.9	7826.8	7872.9
12.5°	7818.0	7795.0	7802.1	7772.0	7818.0
15°	7733.0	7718.9	7722.4	7701.2	7757.8
17.5°	7630.4	7623.3	7630.4	7614.4	7665.8
20°	7522.4	7513.5	7524.2	7515.3	7563.1
22.5°	7396.7	7386.1	7407.3	7395.0	7439.2
25°	7258.7	7249.8	7262.2	7258.7	7306.5
27.5°	7101.1	7092.3	7118.8	7120.6	7157.8
30°	6943.6	6931.2	6952.5	6961.3	6998.5
32.5°	6756.0	6752.5	6784.3	6791.4	6830.3
35°	6566.6	6556.0	6587.8	6610.9	6642.7
37.5°	6359.5	6357.8	6391.4	6410.9	6426.8
40°	6141.8	6133.0	6180.8	6200.2	6214.4
42.5°	5920.6	5901.1	5947.1	5971.9	5987.8
45°	5685.2	5653.3	5706.4	5729.4	5752.4
47.5°	5426.7	5398.4	5449.8	5474.5	5490.5
50°	5152.4	5125.8	5182.5	5203.7	5216.1
52.5°	4876.3	4849.7	4909.9	4927.6	4957.7
55°	4547.1	4561.2	4610.8	4626.7	4660.3
57.5°	4242.6	4255.0	4302.8	4322.3	4361.2
60°	3918.7	3938.2	3982.4	4001.9	4032.0
62.5°	3605.4	3607.2	3660.3	3669.2	3692.2
65°	3239.1	3267.4	3306.3	3331.1	3331.1
67.5°	2830.2	2899.2	2966.5	2961.2	2975.3
70°	2488.6	2515.1	2594.8	2607.2	2626.6
72.5°	2060.3	2129.3	2217.8	1656.7	562.9
75°	1679.7	1752.3	1821.3	297.4	219.5
77.5°	1304.5	1361.1	605.3	169.9	166.4
80°	906.2	996.5	152.2	155.8	161.1
82.5°	596.5	486.7	125.7	138.1	139.8
85°	302.7	90.3	99.1	102.7	100.9
87.5°	99.1	54.9	56.6	58.4	60.2
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)