

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: P730779

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CLI-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23774.0 lumens
Efficiency: N/A
Efficacy: 158.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

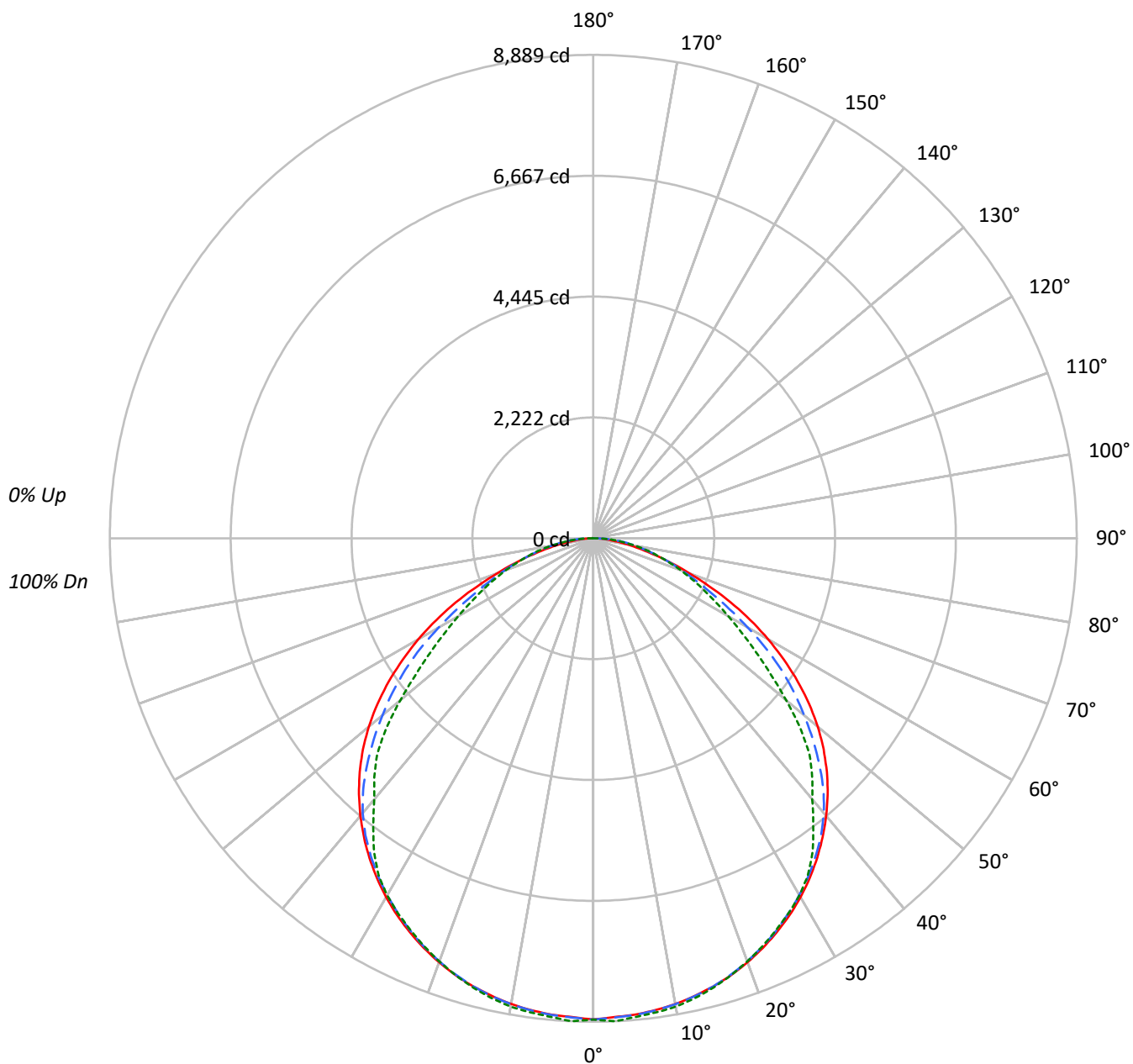
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14287	14287	14287
5°	14249	14259	14323
10°	14257	14264	14339
15°	14259	14257	14291
20°	14255	14222	14226
25°	14233	14180	14163
30°	14210	14125	14133
35°	14144	14056	13857
40°	14043	13900	13199
45°	13865	13421	12834
50°	13531	12706	11623
55°	12915	11884	10278
60°	11985	10603	9269
65°	10653	9180	8523
70°	8841	8204	8034
75°	7150	7508	7601
80°	5679	7181	7151
85°	4446	7714	7358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.2	3.5
10°-20°	2413.8	10.2
20°-30°	3680.6	15.5
30°-40°	4453.0	18.7
40°-50°	4510.5	19.0
50°-60°	3728.1	15.7
60°-70°	2462.3	10.4
70°-80°	1284.0	5.4
80°-90°	402.5	1.7
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°	6933.6	29.2
0°-40°	11386.7	47.9
0°-60°	19625.2	82.5
0°-90°	23774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8849	8849	8849	8849	8849	
5°	8791	8845	8798	8836	8837	836
15°	8530	8574	8529	8556	8549	2409
25°	7990	8021	7960	7980	7950	3684
35°	7176	7185	7131	7122	7030	4488
45°	6072	6056	5878	5695	5620	4676
55°	4588	4520	4222	3812	3651	4089
65°	2788	2708	2403	2247	2231	2754
75°	1146	1166	1204	1219	1218	1249
85°	240	309	416	413	397	291
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8848.8	8848.8	8848.8	8848.8	8848.8
2.5°	8811.7	8863.7	8820.1	8858.4	8889.2
5°	8791.4	8844.6	8797.8	8836.1	8837.1
7.5°	8752.2	8805.3	8757.4	8795.7	8794.6
10°	8695.8	8745.8	8700.1	8745.8	8745.8
12.5°	8619.4	8668.2	8623.7	8666.1	8659.7
15°	8530.2	8573.7	8529.1	8555.7	8549.3
17.5°	8425.0	8464.3	8414.3	8436.6	8423.9
20°	8296.4	8332.6	8277.4	8306.0	8279.4
22.5°	8151.9	8185.9	8129.6	8150.9	8121.1
25°	7989.5	8021.3	7959.7	7979.9	7950.1
27.5°	7814.1	7842.8	7773.7	7798.3	7774.8
30°	7621.9	7635.7	7576.2	7608.1	7580.5
32.5°	7407.3	7415.8	7363.7	7392.4	7345.7
35°	7175.7	7185.3	7131.1	7121.5	7030.2
37.5°	6928.2	6932.5	6881.5	6795.4	6644.6
40°	6662.7	6660.6	6594.7	6396.0	6262.1
42.5°	6379.0	6378.0	6262.1	6035.9	5959.4
45°	6072.0	6056.1	5877.6	5694.9	5620.5
47.5°	5742.7	5725.7	5476.1	5330.6	5161.6
50°	5386.9	5357.1	5058.6	4859.9	4627.3
52.5°	5003.4	4957.6	4653.9	4333.0	4113.2
55°	4588.0	4520.0	4221.6	3811.5	3651.1
57.5°	4155.7	4054.7	3764.7	3365.3	3234.7
60°	3711.6	3599.0	3283.5	2955.3	2870.3
62.5°	3254.8	3143.3	2821.4	2573.9	2527.2
65°	2788.5	2707.7	2402.9	2246.7	2230.8
67.5°	2310.5	2281.8	2049.1	1969.5	1963.1
70°	1872.8	1867.5	1737.9	1697.5	1701.8
72.5°	1496.8	1490.4	1471.3	1451.1	1452.1
75°	1146.2	1166.4	1203.6	1219.4	1218.5
77.5°	855.1	896.6	975.2	1007.0	1001.7
80°	610.8	672.5	772.3	802.1	769.1
82.5°	406.8	471.6	589.5	593.8	567.3
85°	240.0	309.1	416.4	413.2	397.2
87.5°	118.9	185.9	249.6	239.0	228.4
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)