

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: P730711

Luminaire Tested: **HBLED-LD5-24HE-W-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730711
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-LD5-24HE-W-CLI-UNV-L850
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23277.0 lumens
Efficiency: N/A
Efficacy: 162.8 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

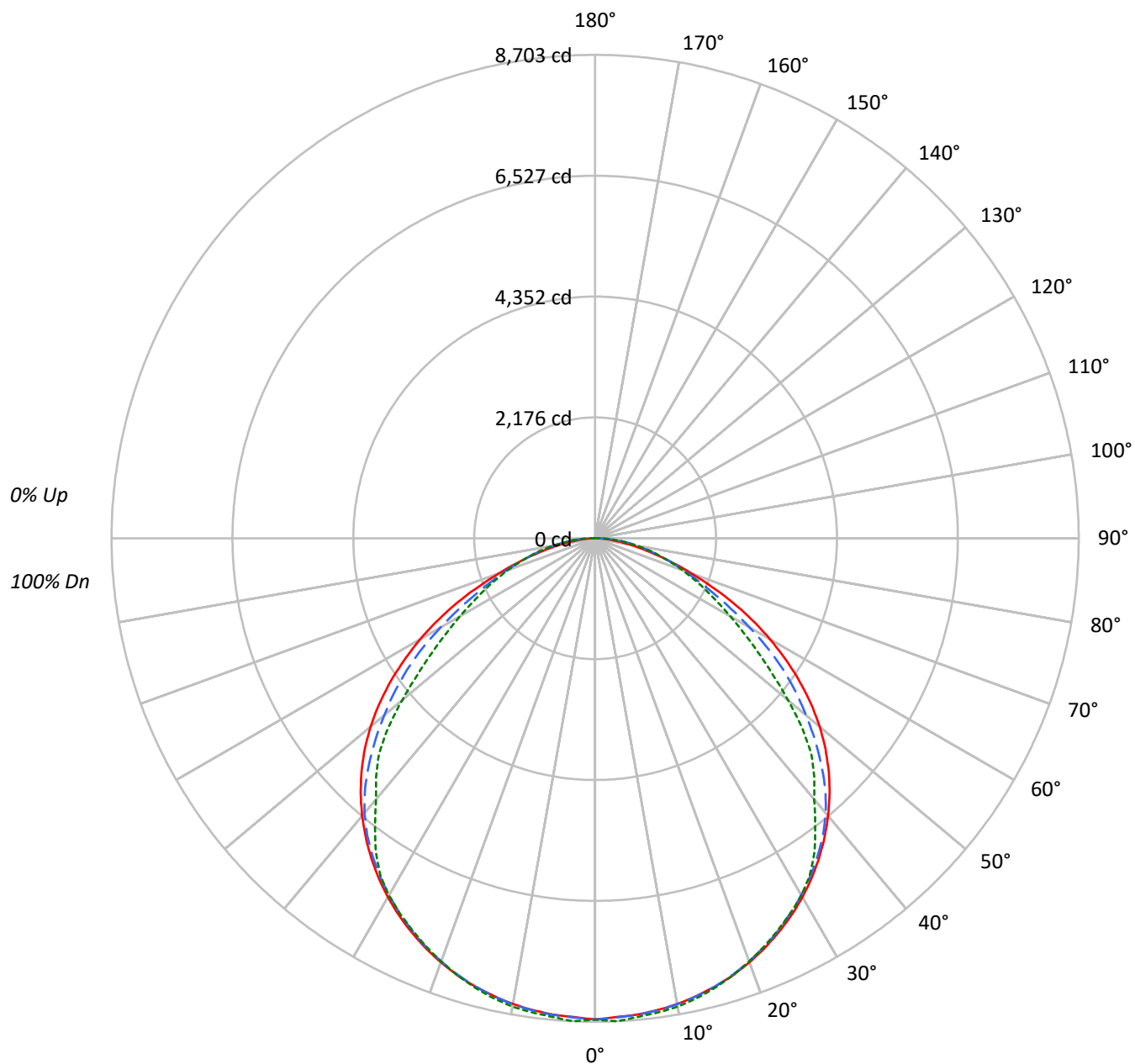
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13988	13988	13988
5°	13951	13961	14023
10°	13959	13966	14039
15°	13961	13959	13992
20°	13957	13925	13928
25°	13936	13884	13867
30°	13913	13830	13837
35°	13848	13762	13567
40°	13749	13609	12923
45°	13575	13140	12565
50°	13248	12441	11380
55°	12645	11635	10063
60°	11735	10381	9075
65°	10431	8988	8345
70°	8656	8033	7866
75°	7001	7351	7442
80°	5561	7031	7001
85°	4353	7553	7204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.6	3.5
10°-20°	2363.3	10.2
20°-30°	3603.7	15.5
30°-40°	4359.9	18.7
40°-50°	4416.2	19.0
50°-60°	3650.1	15.7
60°-70°	2410.8	10.4
70°-80°	1257.1	5.4
80°-90°	394.1	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°	6788.7	29.2
0°-40°	11148.6	47.9
0°-60°	19215.0	82.5
0°-90°	23277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8664	8664	8664	8664	8664	
5°	8608	8660	8614	8651	8652	819
15°	8352	8394	8351	8377	8370	2358
25°	7822	7854	7793	7813	7784	3607
35°	7026	7035	6982	6973	6883	4394
45°	5945	5930	5755	5576	5503	4578
55°	4492	4426	4133	3732	3575	4004
65°	2730	2651	2353	2200	2184	2697
75°	1122	1142	1178	1194	1193	1223
85°	235	303	408	405	389	285
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8663.8	8663.8	8663.8	8663.8	8663.8
2.5°	8627.5	8678.4	8635.7	8673.2	8703.3
5°	8607.6	8659.7	8613.9	8651.4	8652.4
7.5°	8569.2	8621.2	8574.3	8611.8	8610.8
10°	8514.0	8563.0	8518.2	8563.0	8563.0
12.5°	8439.2	8487.0	8443.4	8484.9	8478.7
15°	8351.9	8394.4	8350.8	8376.8	8370.5
17.5°	8248.9	8287.4	8238.4	8260.2	8247.8
20°	8123.0	8158.4	8104.3	8132.4	8106.3
22.5°	7981.5	8014.8	7959.7	7980.6	7951.3
25°	7822.4	7853.7	7793.3	7813.1	7783.9
27.5°	7650.8	7678.9	7611.2	7635.2	7612.3
30°	7462.5	7476.1	7417.9	7449.1	7422.0
32.5°	7252.4	7260.8	7209.8	7237.8	7192.1
35°	7025.7	7035.1	6982.1	6972.7	6883.2
37.5°	6783.4	6787.5	6737.6	6653.3	6505.7
40°	6523.4	6521.3	6456.8	6262.3	6131.2
42.5°	6245.6	6244.7	6131.2	5909.7	5834.9
45°	5945.1	5929.5	5754.7	5575.8	5503.0
47.5°	5622.7	5606.0	5361.6	5219.1	5053.7
50°	5274.2	5245.1	4952.8	4758.3	4530.6
52.5°	4898.8	4854.0	4556.6	4242.5	4027.2
55°	4492.1	4425.5	4133.3	3731.8	3574.8
57.5°	4068.8	3970.0	3686.0	3295.0	3167.0
60°	3634.1	3523.7	3214.8	2893.5	2810.3
62.5°	3186.8	3077.6	2762.5	2520.1	2474.3
65°	2730.2	2651.1	2352.6	2199.8	2184.2
67.5°	2262.2	2234.1	2006.3	1928.3	1922.1
70°	1833.7	1828.5	1701.6	1662.0	1666.2
72.5°	1465.5	1459.2	1440.6	1420.7	1421.8
75°	1122.3	1142.0	1178.4	1194.0	1193.0
77.5°	837.3	877.9	954.8	986.0	980.8
80°	598.1	658.4	756.2	785.3	753.0
82.5°	398.3	461.8	577.2	581.4	555.4
85°	235.0	302.6	407.7	404.6	388.9
87.5°	116.5	182.0	244.4	234.0	223.6
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)