

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: P730675

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-N-CLI-UNV-L850
Description: 24000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22325.0 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

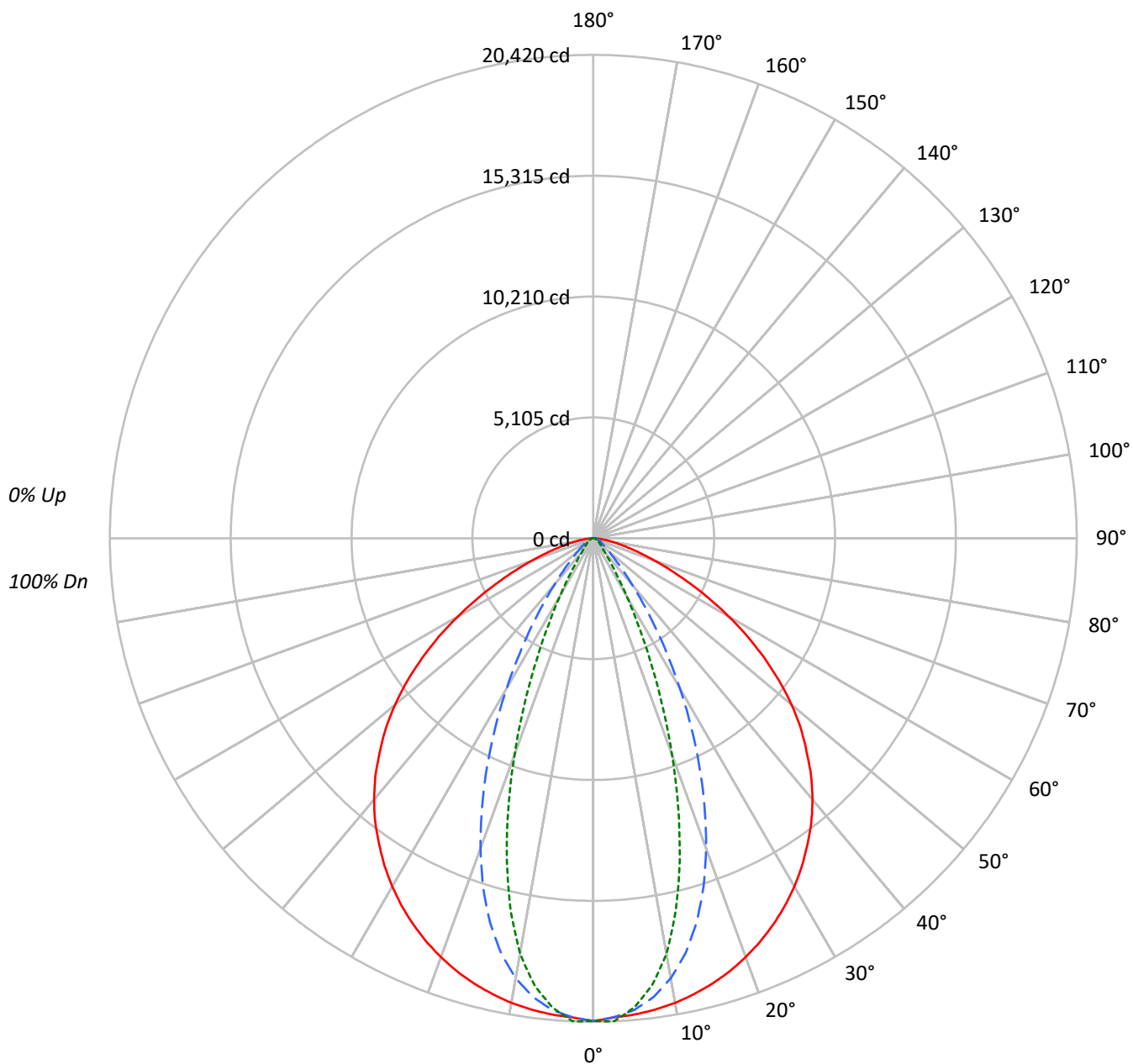
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32925	32925	32925
5°	32727	32401	32231
10°	32672	30934	29191
15°	32541	28119	23575
20°	32346	23927	16709
25°	32056	18867	10095
30°	31667	13617	5188
35°	31095	8902	2591
40°	30358	5347	1512
45°	29097	3193	1131
50°	27443	2088	949
55°	24838	1584	828
60°	21344	1349	756
65°	17169	1231	714
70°	12934	1319	710
75°	9514	1253	730
80°	6961	1248	800
85°	5213	1514	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1878.0	8.4
10°-20°	4672.1	20.9
20°-30°	5175.0	23.2
30°-40°	4146.1	18.6
40°-50°	2959.8	13.3
50°-60°	1901.1	8.5
60°-70°	1030.3	4.6
70°-80°	440.4	2.0
80°-90°	122.1	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°	11725.2	52.5
0°-40°	15871.3	71.1
0°-60°	20732.2	92.9
0°-90°	22325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20392	20392	20392	20392	20392	
5°	20192	20268	19992	19928	19886	###
15°	19468	18858	16822	14866	14104	5493
25°	17994	15866	10590	6900	5667	8289
35°	15776	11411	4516	1822	1315	9864
45°	12743	6587	1398	595	495	9822
55°	8824	2945	563	346	294	7863
65°	4494	1209	322	222	187	4500
75°	1525	442	201	140	117	1695
85°	281	117	82	68	56	344
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20392.2	20392.2	20392.2	20392.2	20392.2
2.5°	20258.0	20384.8	20248.3	20333.1	20420.1
5°	20192.5	20267.7	19991.6	19928.2	19886.4
7.5°	20078.6	20057.1	19538.4	19202.2	19040.0
10°	19928.2	19754.2	18868.1	18129.2	17804.9
12.5°	19713.4	19354.7	17960.5	16663.1	16113.2
15°	19467.5	18858.5	16822.0	14866.2	14103.6
17.5°	19173.2	18278.5	15461.2	12939.3	11932.9
20°	18825.2	17578.2	13925.3	10892.1	9724.6
22.5°	18436.4	16770.5	12280.9	8851.4	7599.1
25°	17993.9	15866.1	10590.4	6899.8	5666.8
27.5°	17516.0	14861.9	8909.4	5155.5	4030.9
30°	16985.3	13774.9	7303.6	3717.4	2782.9
32.5°	16406.4	12619.3	5811.8	2614.3	1903.3
35°	15776.0	11410.9	4516.4	1821.6	1314.6
37.5°	15130.4	10177.9	3411.2	1287.8	943.1
40°	14403.2	8949.1	2537.0	943.1	717.4
42.5°	13622.4	7744.0	1877.5	726.0	581.1
45°	12742.8	6587.2	1398.5	595.1	495.2
47.5°	11890.0	5508.9	1062.2	506.9	430.7
50°	10925.5	4535.8	831.3	442.5	378.0
52.5°	9901.9	3679.8	674.5	389.9	333.0
55°	8823.5	2945.1	562.8	345.8	294.3
57.5°	7731.2	2332.8	481.2	308.2	262.1
60°	6609.8	1865.7	417.8	276.0	234.1
62.5°	5515.4	1491.9	365.2	248.1	209.5
65°	4493.9	1209.3	322.2	222.3	186.9
67.5°	3549.7	955.9	300.8	199.7	168.7
70°	2739.9	744.3	279.3	178.3	150.4
72.5°	2076.1	571.5	247.1	159.0	133.2
75°	1525.1	442.5	200.9	139.6	117.0
77.5°	1091.3	340.5	163.3	121.3	101.0
80°	748.6	253.5	134.2	104.2	86.0
82.5°	486.6	179.4	108.5	86.0	70.8
85°	281.4	117.0	81.7	67.7	55.8
87.5°	121.3	64.4	55.8	50.5	42.9
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)