

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: P730747

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730747
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-LD5-24SE-N-CLI-UNV-L850
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22192.0 lumens
Efficiency: N/A
Efficacy: 147.9 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

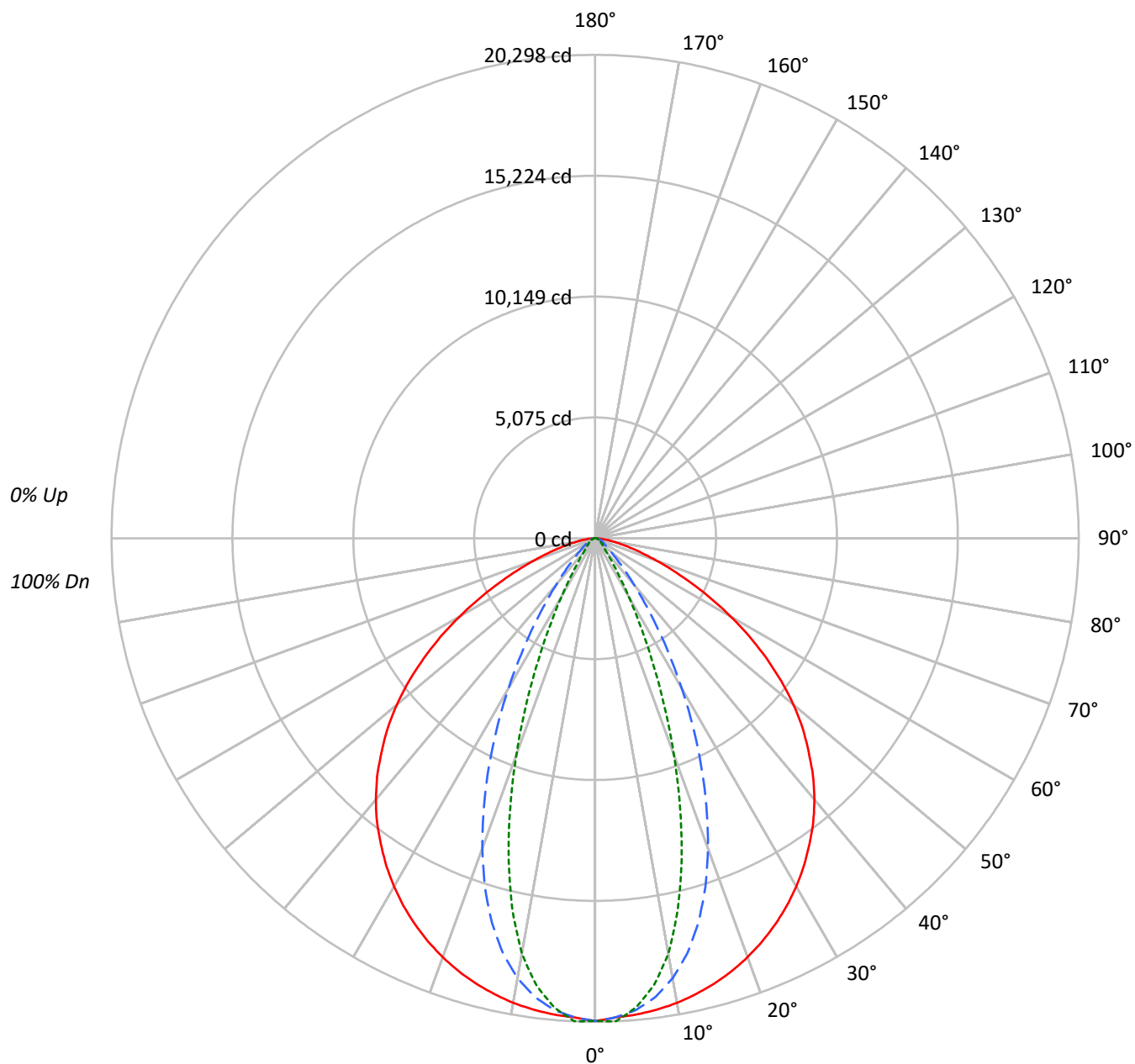
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	32729	32729	32729
5°	32532	32208	32039
10°	32478	30750	29017
15°	32347	27951	23434
20°	32153	23784	16609
25°	31865	18754	10035
30°	31478	13535	5158
35°	30910	8849	2576
40°	30177	5315	1503
45°	28923	3174	1124
50°	27280	2076	944
55°	24690	1575	824
60°	21217	1341	751
65°	17066	1224	710
70°	12857	1310	706
75°	9457	1246	726
80°	6920	1240	795
85°	5183	1504	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1866.8	8.4
10°-20°	4644.3	20.9
20°-30°	5144.2	23.2
30°-40°	4121.4	18.6
40°-50°	2942.2	13.3
50°-60°	1889.8	8.5
60°-70°	1024.1	4.6
70°-80°	437.7	2.0
80°-90°	121.4	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°	11655.3	52.5
0°-40°	15776.7	71.1
0°-60°	20608.7	92.9
0°-90°	22192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20271	20271	20271	20271	20271	
5°	20072	20147	19872	19810	19768	###
15°	19352	18746	16722	14778	14020	5460
25°	17887	15772	10527	6859	5633	8240
35°	15682	11343	4490	1811	1307	9805
45°	12667	6548	1390	592	492	9763
55°	8771	2928	559	344	293	7817
65°	4467	1202	320	221	186	4473
75°	1516	440	200	139	116	1685
85°	280	116	81	67	56	342
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20270.7	20270.7	20270.7	20270.7	20270.7
2.5°	20137.3	20263.3	20127.7	20212.0	20298.5
5°	20072.2	20147.0	19872.5	19809.5	19767.9
7.5°	19959.0	19937.6	19422.0	19087.8	18926.5
10°	19809.5	19636.5	18755.7	18021.2	17698.8
12.5°	19596.0	19239.4	17853.5	16563.8	16017.2
15°	19351.5	18746.2	16721.8	14777.7	14019.6
17.5°	19058.9	18169.6	15369.1	12862.3	11861.8
20°	18713.0	17473.5	13842.4	10827.2	9666.7
22.5°	18326.6	16670.6	12207.7	8798.6	7553.8
25°	17886.7	15771.6	10527.3	6858.7	5633.0
27.5°	17411.6	14773.4	8856.4	5124.8	4006.9
30°	16884.1	13692.9	7260.1	3695.3	2766.4
32.5°	16308.6	12544.1	5777.2	2598.7	1891.9
35°	15682.0	11343.0	4489.5	1810.7	1306.8
37.5°	15040.2	10117.2	3390.9	1280.1	937.4
40°	14317.4	8895.8	2521.9	937.4	713.2
42.5°	13541.3	7697.9	1866.3	721.7	577.6
45°	12666.8	6548.0	1390.1	591.5	492.2
47.5°	11819.1	5476.1	1055.9	503.9	428.1
50°	10860.4	4508.8	826.4	439.9	375.8
52.5°	9842.9	3657.9	670.5	387.6	331.0
55°	8770.9	2927.5	559.4	343.8	292.6
57.5°	7685.1	2318.9	478.3	306.4	260.6
60°	6570.4	1854.5	415.3	274.4	232.7
62.5°	5482.5	1483.0	363.0	246.6	208.2
65°	4467.1	1202.1	320.3	221.0	185.8
67.5°	3528.6	950.2	299.0	198.6	167.7
70°	2723.6	739.9	277.6	177.2	149.5
72.5°	2063.8	568.1	245.6	158.0	132.4
75°	1516.0	439.9	199.7	138.8	116.4
77.5°	1084.8	338.5	162.3	120.6	100.4
80°	744.2	252.0	133.4	103.5	85.5
82.5°	483.7	178.3	107.8	85.5	70.4
85°	279.8	116.4	81.2	67.3	55.5
87.5°	120.6	64.0	55.5	50.2	42.7
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)