

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: P730730

Luminaire Tested: **HBLED-LD5-24SE-N-CL-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-CL-UNV-L735
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22404.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

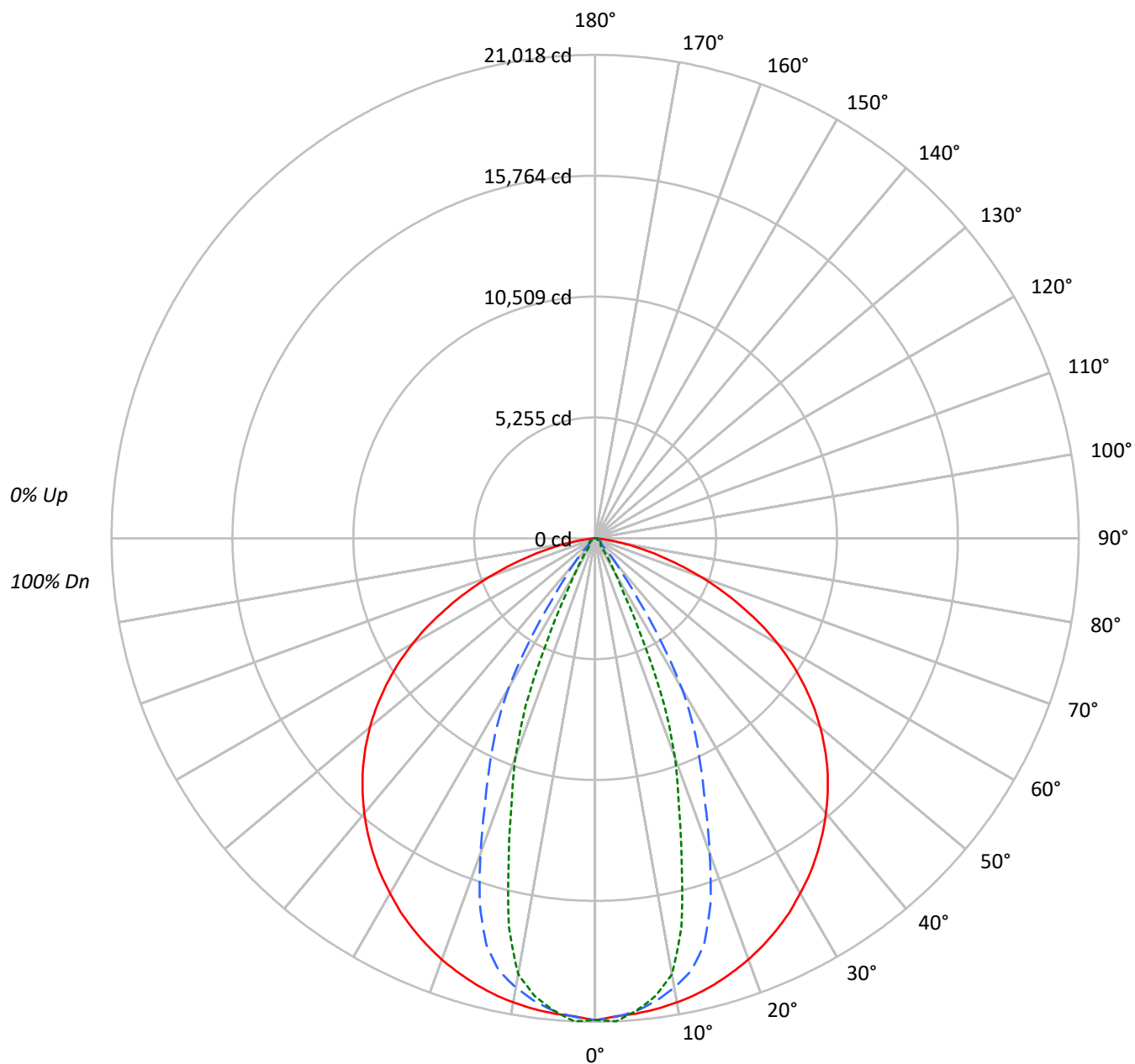
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90		
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66		
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51		
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47		
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44		
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33823	33823	33823
5°	33615	33440	33415
10°	33592	32515	31556
15°	33554	30576	24263
20°	33489	25022	17404
25°	33384	19279	8844
30°	33226	14070	3218
35°	33107	6461	1120
40°	32903	2933	773
45°	32611	1094	783
50°	32091	794	824
55°	31141	836	628
60°	29593	893	554
65°	26837	680	450
70°	23010	490	415
75°	17588	435	395
80°	11004	409	429
85°	3475	478	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1950.3	8.7
10°-20°	4912.9	21.9
20°-30°	5350.4	23.9
30°-40°	4002.4	17.9
40°-50°	2877.8	12.8
50°-60°	1767.4	7.9
60°-70°	1017.0	4.5
70°-80°	453.9	2.0
80°-90°	72.0	0.3
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°	12213.5	54.5
0°-40°	16215.9	72.4
0°-60°	20861.1	93.1
0°-90°	22404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20948	20948	20948	20948	20948	
5°	20740	20838	20632	20651	20617	###
15°	20074	19689	18292	15710	14515	5666
25°	18739	17395	10822	6943	4964	8638
35°	16797	12047	3278	964	568	10507
45°	14282	6768	479	355	343	11002
55°	11063	1406	297	287	223	9863
65°	7024	154	178	148	118	6953
75°	2819	93	70	72	63	3059
85°	188	18	26	33	31	374
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20948.3	20948.3	20948.3	20948.3	20948.3
2.5°	20802.6	20938.7	20824.0	20926.9	21018.0
5°	20740.4	20837.9	20632.1	20651.3	20617.1
7.5°	20633.1	20656.7	20284.8	20141.1	20071.4
10°	20489.5	20426.3	19832.4	19490.5	19247.1
12.5°	20308.4	20099.4	19269.6	18048.6	17320.8
15°	20073.6	19688.8	18292.0	15709.7	14515.4
17.5°	19793.8	19260.0	16673.3	13092.9	12059.6
20°	19490.5	18786.2	14562.6	11132.4	10129.0
22.5°	19132.4	18180.5	12480.9	9258.5	7881.1
25°	18739.0	17394.8	10821.5	6943.1	4964.3
27.5°	18314.6	16358.2	9285.3	4257.8	2684.2
30°	17821.4	15096.5	7546.6	2389.4	1725.9
32.5°	17340.1	13625.8	5390.9	1591.8	1103.0
35°	16796.6	12046.8	3278.1	963.7	568.1
37.5°	16220.9	10611.3	2051.8	524.2	392.3
40°	15611.0	9249.9	1391.4	372.0	366.6
42.5°	14959.2	8018.3	871.5	353.7	365.5
45°	14281.8	6768.4	479.2	354.9	343.1
47.5°	13546.4	5411.3	334.5	335.5	334.5
50°	12775.7	3881.6	316.3	331.3	328.1
52.5°	11944.9	2409.8	317.3	323.7	290.5
55°	11062.7	1406.4	296.9	287.3	223.0
57.5°	10135.4	876.8	290.5	236.9	200.4
60°	9164.2	463.1	276.6	213.4	171.5
62.5°	8129.7	228.4	221.8	182.2	140.5
65°	7024.5	154.4	178.0	147.9	117.9
67.5°	5956.9	139.3	134.0	121.1	102.9
70°	4874.2	127.5	103.9	106.1	87.9
72.5°	3811.9	115.7	83.6	91.1	73.9
75°	2819.3	93.3	69.7	71.8	63.3
77.5°	1961.7	72.9	54.7	61.1	59.0
80°	1183.5	46.1	44.0	50.4	46.1
82.5°	573.5	30.0	34.3	39.6	36.4
85°	187.6	18.2	25.8	33.2	31.1
87.5°	23.6	10.8	21.4	29.0	26.8
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)