

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: P730744

Luminaire Tested: **HBLED-LD5-24SE-N-CLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730744
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-L750
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: 23350.0 lumens
Efficiency: N/A
Efficacy: 155.7 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

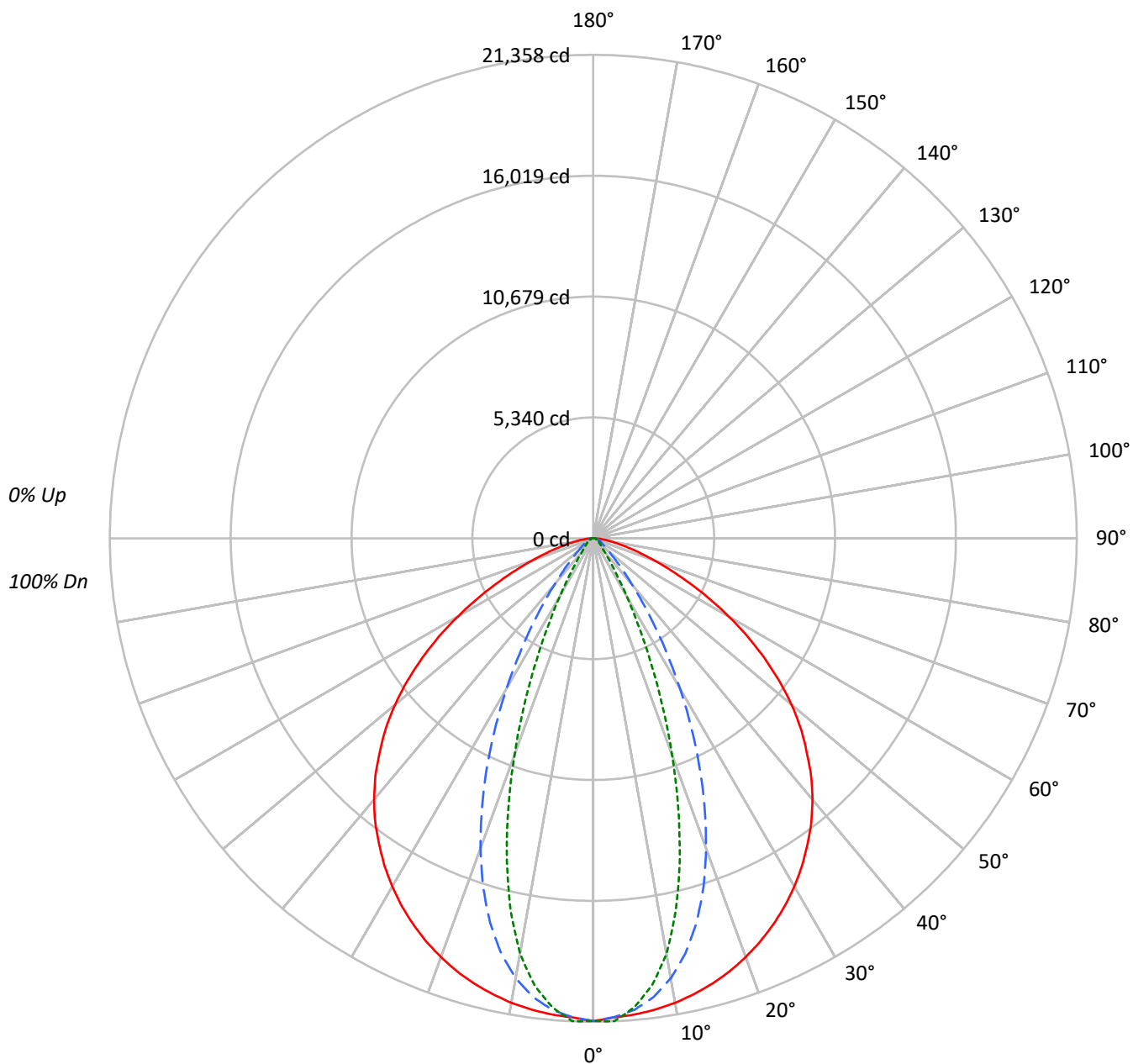
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	34437	34437	34437
5°	34230	33889	33711
10°	34172	32354	30531
15°	34035	29410	24657
20°	33831	25025	17476
25°	33528	19733	10559
30°	33121	14242	5427
35°	32523	9311	2710
40°	31751	5593	1582
45°	30432	3340	1183
50°	28703	2184	993
55°	25978	1657	866
60°	22324	1411	791
65°	17957	1287	747
70°	13528	1379	743
75°	9951	1311	764
80°	7280	1305	836
85°	5454	1582	1082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1964.2	8.4
10°-20°	4886.6	20.9
20°-30°	5412.7	23.2
30°-40°	4336.5	18.6
40°-50°	3095.7	13.3
50°-60°	1988.4	8.5
60°-70°	1077.6	4.6
70°-80°	460.6	2.0
80°-90°	127.7	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°	12263.5	52.5
0°-40°	16600.0	71.1
0°-60°	21684.1	92.9
0°-90°	23350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21328	21328	21328	21328	21328	
5°	21120	21198	20910	20843	20800	###
15°	20361	19724	17594	15549	14751	5745
25°	18820	16595	11077	7217	5927	8670
35°	16500	11935	4724	1905	1375	10317
45°	13328	6890	1463	622	518	10273
55°	9229	3080	589	362	308	8224
65°	4700	1265	337	233	195	4707
75°	1595	463	210	146	122	1772
85°	294	122	85	71	58	359
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21328.5	21328.5	21328.5	21328.5	21328.5
2.5°	21188.1	21320.7	21177.9	21266.7	21357.7
5°	21119.6	21198.3	20909.5	20843.2	20799.5
7.5°	21000.5	20978.0	20435.5	20083.8	19914.1
10°	20843.2	20661.2	19734.4	18961.6	18622.3
12.5°	20618.5	20243.4	18785.2	17428.1	16853.0
15°	20361.3	19724.4	17594.4	15548.8	14751.1
17.5°	20053.5	19117.7	16171.1	13533.4	12480.8
20°	19689.5	18385.3	14564.7	11392.2	10171.1
22.5°	19282.9	17540.5	12844.7	9257.8	7948.0
25°	18820.0	16594.6	11076.6	7216.6	5927.0
27.5°	18320.2	15544.3	9318.5	5392.2	4216.0
30°	17765.1	14407.4	7639.0	3888.1	2910.7
32.5°	17159.6	13198.7	6078.7	2734.3	1990.7
35°	16500.3	11934.8	4723.8	1905.2	1375.0
37.5°	15825.1	10645.2	3567.8	1346.9	986.3
40°	15064.5	9360.0	2653.5	986.3	750.4
42.5°	14247.9	8099.6	1963.7	759.3	607.7
45°	13327.8	6889.7	1462.7	622.4	517.9
47.5°	12435.9	5761.9	1111.0	530.2	450.5
50°	11427.1	4744.1	869.5	462.9	395.4
52.5°	10356.5	3848.7	705.5	407.8	348.2
55°	9228.6	3080.3	588.6	361.7	307.8
57.5°	8086.1	2439.9	503.3	322.4	274.1
60°	6913.3	1951.3	437.0	288.7	244.8
62.5°	5768.6	1560.4	381.9	259.5	219.1
65°	4700.2	1264.9	337.0	232.6	195.4
67.5°	3712.7	999.8	314.6	208.9	176.4
70°	2865.7	778.5	292.1	186.5	157.3
72.5°	2171.5	597.7	258.4	166.3	139.3
75°	1595.1	462.9	210.1	146.1	122.4
77.5°	1141.4	356.2	170.8	126.9	105.6
80°	783.0	265.2	140.4	109.0	89.9
82.5°	508.9	187.7	113.4	89.9	74.1
85°	294.4	122.4	85.4	70.8	58.4
87.5°	126.9	67.4	58.4	52.8	44.9
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)