

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: P730737

Luminaire Tested: **HBLED-LD5-24SE-N-CL-WG-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
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-WG-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22699.0 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

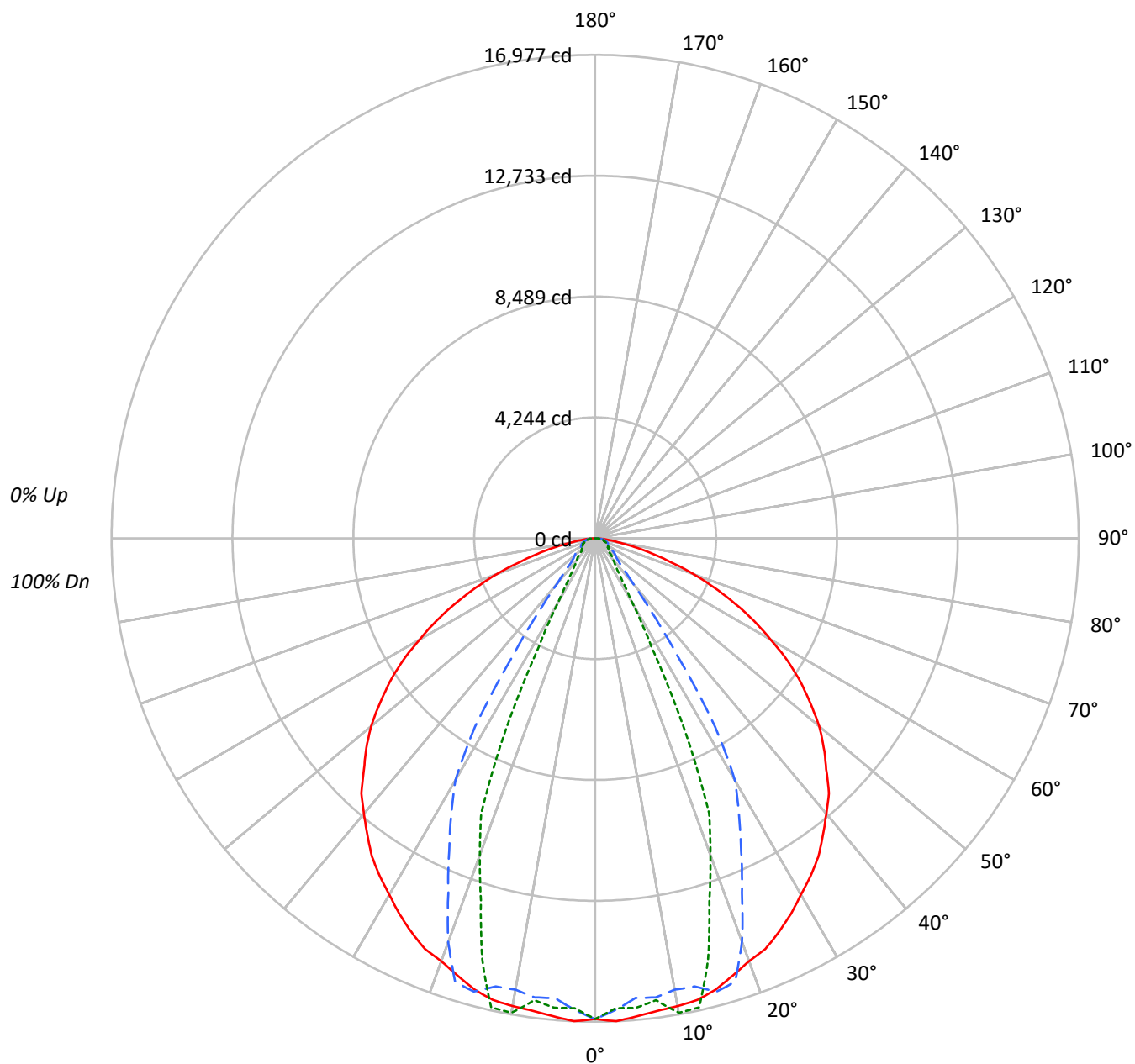
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101	109	105	103	100		101	99	97		98	96	94		94	92	91
2	104	97	92	88	101	96	91	87		92	88	85		89	86	83		86	84	81
3	97	89	82	77	95	87	81	76		84	79	75		82	77	74		79	76	73
4	90	81	74	68	88	80	73	68		77	72	67		75	70	66		73	69	65
5	85	74	67	62	83	73	66	61		71	65	61		69	64	60		68	63	59
6	79	68	61	56	78	68	61	56		66	60	55		64	59	55		63	58	54
7	75	63	56	51	73	63	56	51		61	55	50		60	54	50		59	54	50
8	70	59	52	47	69	58	51	47		57	51	46		56	50	46		55	50	46
9	66	55	48	43	65	54	48	43		53	47	43		52	47	43		52	46	43
10	63	52	45	40	62	51	45	40		50	44	40		49	44	40		48	43	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27262	27262	27262
5°	27307	26267	26820
10°	27346	26393	27747
15°	27407	27550	25606
20°	27148	25912	20324
25°	27187	21602	13276
30°	26943	18300	4769
35°	26915	9914	2683
40°	26610	4322	2101
45°	26199	2671	1647
50°	25790	2327	1555
55°	24777	2018	1521
60°	22988	1808	1635
65°	20663	2043	1787
70°	17330	2197	1843
75°	12955	2506	1995
80°	8137	2910	2274
85°	5419	3646	3331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1565.0	6.9
10°-20°	4419.1	19.5
20°-30°	5411.4	23.8
30°-40°	4249.6	18.7
40°-50°	3151.3	13.9
50°-60°	1918.5	8.5
60°-70°	1149.2	5.1
70°-80°	630.5	2.8
80°-90°	204.5	0.9
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°	11395.5	50.2
0°-40°	15645.0	68.9
0°-60°	20714.8	91.3
0°-90°	22699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16885	16885	16885	16885	16885	
5°	16848	16390	16206	16385	16548	###
15°	16396	15947	16482	15816	15319	4616
25°	15261	15309	12126	9511	7452	7025
35°	13655	12422	5030	1683	1361	8521
45°	11474	8239	1170	886	721	8873
55°	8802	2270	717	606	540	7833
65°	5409	669	535	503	468	5344
75°	2077	422	402	349	320	2249
85°	292	230	197	181	180	357
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16884.7	16884.7	16884.7	16884.7	16884.7
2.5°	16976.8	16748.1	16572.9	16475.0	16514.8
5°	16848.2	16389.6	16206.4	16385.1	16547.8
7.5°	16736.7	16055.1	16262.2	16278.2	16363.5
10°	16679.8	16023.2	16098.3	16452.2	16924.4
12.5°	16604.8	16097.2	16123.3	16605.8	16872.1
15°	16396.5	15947.0	16481.8	15816.1	15318.8
17.5°	16092.6	15596.5	16331.6	14011.4	13335.4
20°	15800.2	15215.3	15081.1	12480.8	11828.8
22.5°	15611.3	15157.3	13472.0	11121.0	10447.3
25°	15260.8	15308.6	12125.9	9510.8	7452.3
27.5°	14875.0	14952.5	10935.6	6342.9	4269.5
30°	14451.7	14540.6	9815.8	3748.3	2558.1
32.5°	14068.3	13567.6	7839.2	2338.5	1778.6
35°	13655.2	12421.6	5029.6	1683.0	1361.0
37.5°	13135.2	11217.7	3183.9	1331.4	1142.5
40°	12625.4	10136.7	2050.6	1136.8	996.9
42.5°	12148.6	9245.7	1491.8	993.5	900.2
45°	11473.8	8238.6	1169.8	886.4	721.4
47.5°	10890.0	7057.5	1023.0	749.9	622.5
50°	10267.5	5396.1	926.3	666.9	619.1
52.5°	9529.0	3529.8	855.7	638.4	578.0
55°	8801.9	2270.2	716.9	606.5	540.5
57.5°	8016.7	1439.5	632.7	588.3	564.4
60°	7118.9	970.6	559.9	557.6	506.4
62.5°	6288.2	797.7	540.5	534.8	479.1
65°	5408.6	669.1	534.8	503.0	467.7
67.5°	4530.1	573.6	483.7	459.7	429.0
70°	3671.0	524.6	465.4	455.2	390.3
72.5°	2787.9	432.4	413.1	385.8	324.4
75°	2076.7	422.1	401.7	349.3	319.8
77.5°	1405.4	389.2	365.3	313.0	289.1
80°	875.1	357.3	313.0	274.2	244.6
82.5°	520.0	298.1	257.2	226.5	207.1
85°	292.5	229.9	196.8	180.9	179.8
87.5°	62.6	83.1	66.0	62.6	44.4
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)