

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: P730773

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CL-WG-UNV-L740
Description: 24000 LUMEN, SE HBLED WITH WIDE 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 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

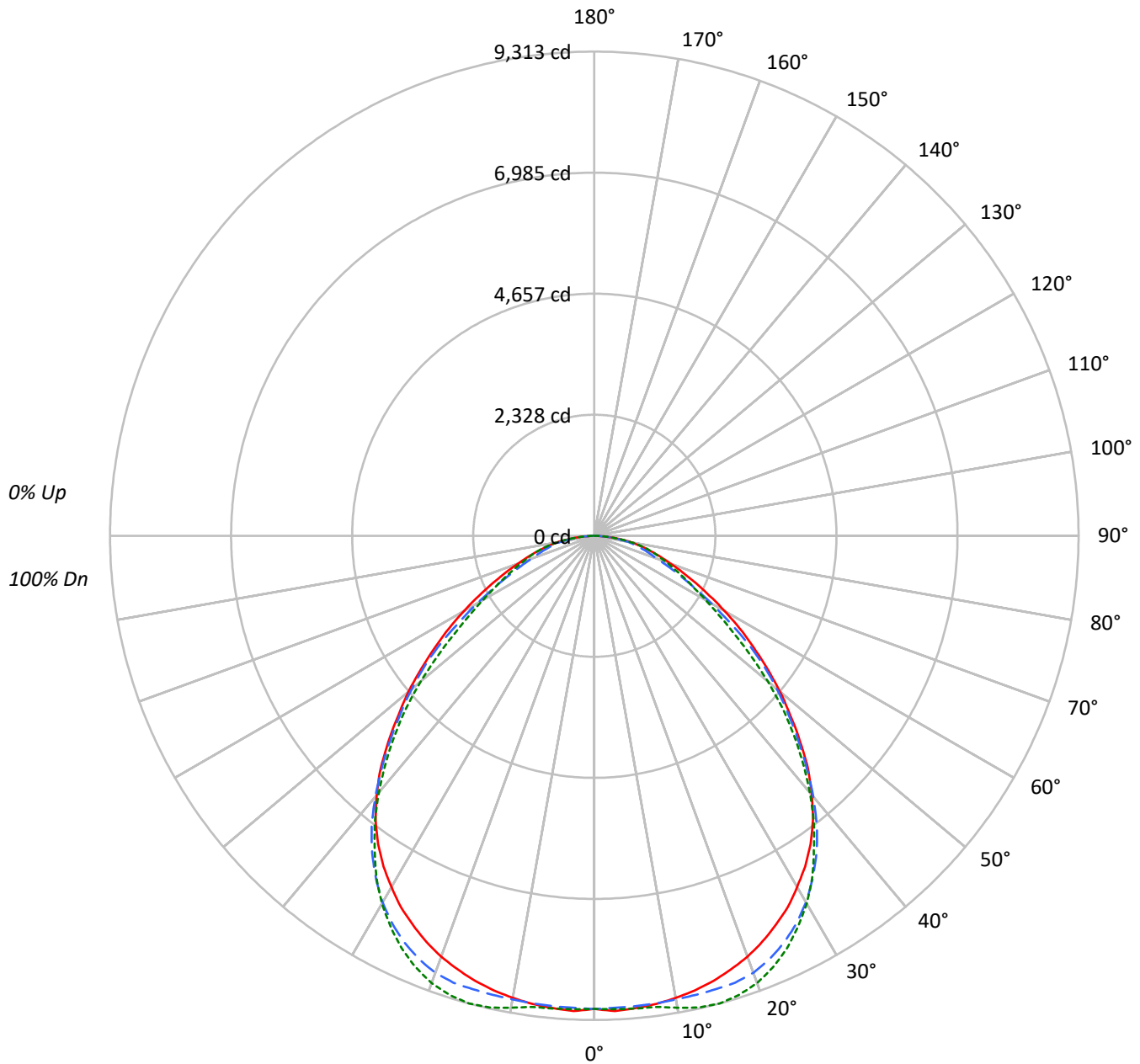
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14695	14695	14695
5°	14782	14721	14793
10°	14795	14845	15111
15°	14814	15092	15567
20°	14804	15368	15727
25°	14713	15382	15608
30°	14544	15179	15227
35°	14284	14687	14511
40°	13721	13805	13587
45°	12785	12651	12393
50°	11705	11517	10927
55°	10514	10124	9238
60°	9325	8377	7975
65°	8215	6960	7238
70°	7348	6040	6893
75°	6883	5873	6971
80°	6701	5937	6635
85°	5348	4698	4870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.0	3.8
10°-20°	2553.9	11.3
20°-30°	3928.8	17.3
30°-40°	4585.2	20.2
40°-50°	4260.8	18.8
50°-60°	3158.3	13.9
60°-70°	1930.7	8.5
70°-80°	1099.7	4.8
80°-90°	314.5	1.4
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°	7349.7	32.4
0°-40°	11934.9	52.6
0°-60°	19354.1	85.3
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°	9102	9102	9102	9102	9102	
5°	9120	9078	9083	9076	9128	868
15°	8862	8857	9029	9207	9313	2502
25°	8259	8322	8634	8707	8761	3804
35°	7247	7303	7451	7390	7362	4516
45°	5599	5632	5540	5454	5428	4314
55°	3735	3641	3597	3341	3282	3352
65°	2150	1953	1822	1871	1894	2152
75°	1103	1035	941	1073	1118	1181
85°	289	282	254	263	263	333
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9101.7	9101.7	9101.7	9101.7	9101.7
2.5°	9150.9	9099.3	9089.9	9068.8	9115.7
5°	9120.5	9078.1	9082.8	9075.9	9127.5
7.5°	9085.2	9054.7	9073.5	9071.1	9139.2
10°	9024.2	9007.7	9054.7	9106.4	9216.7
12.5°	8956.1	8939.7	9043.0	9174.4	9294.2
15°	8862.2	8857.4	9028.9	9207.3	9312.9
17.5°	8744.8	8751.9	9012.4	9165.1	9258.9
20°	8615.7	8627.4	8944.4	9068.8	9153.3
22.5°	8449.0	8489.0	8812.9	8916.1	8981.9
25°	8258.8	8322.2	8634.5	8707.3	8761.2
27.5°	8054.6	8118.0	8413.8	8451.3	8481.9
30°	7801.1	7890.2	8141.4	8146.2	8167.3
32.5°	7542.8	7622.7	7815.2	7794.0	7798.7
35°	7247.0	7303.4	7451.2	7390.3	7362.1
37.5°	6906.7	6937.2	7031.0	6939.5	6934.8
40°	6509.9	6549.8	6549.8	6423.1	6446.5
42.5°	6087.4	6101.4	6042.8	5923.0	5941.7
45°	5599.0	5631.9	5540.3	5453.5	5427.7
47.5°	5115.4	5148.3	5052.0	4951.1	4906.5
50°	4660.0	4643.5	4584.9	4413.5	4350.1
52.5°	4188.1	4136.5	4113.0	3861.8	3789.0
55°	3735.0	3641.2	3596.6	3340.6	3281.9
57.5°	3314.8	3145.8	3061.3	2861.8	2838.2
60°	2887.6	2697.4	2594.1	2465.0	2469.6
62.5°	2500.2	2300.6	2176.2	2138.7	2155.1
65°	2150.4	1953.2	1821.8	1871.0	1894.5
67.5°	1833.5	1671.5	1523.6	1638.6	1662.1
70°	1556.5	1427.4	1279.5	1448.5	1460.2
72.5°	1326.3	1220.8	1096.3	1255.9	1281.8
75°	1103.4	1035.3	941.4	1072.9	1117.5
77.5°	908.5	854.6	800.5	880.4	929.7
80°	720.7	666.8	638.5	680.8	713.6
82.5°	509.4	474.3	446.1	476.5	493.0
85°	288.7	281.7	253.6	262.9	262.9
87.5°	65.8	75.1	84.5	77.5	65.8
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)