

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: P730798

Luminaire Tested: **HBLED-LD5-24SE-W-WG-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-WG-UNV-L750
Description: 24000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24819.0 lumens
Efficiency: N/A
Efficacy: 165.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

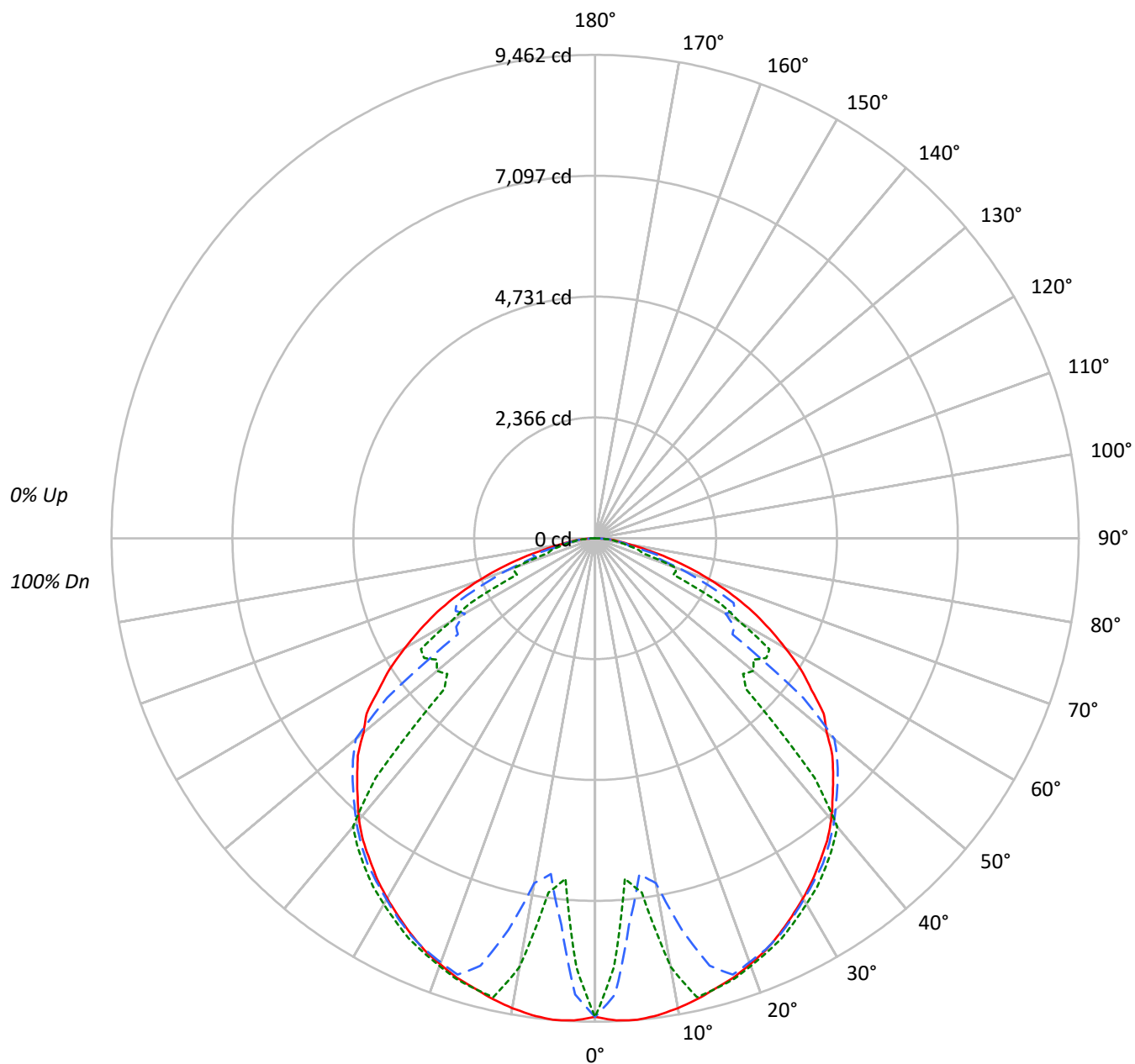
Input Watts (W): 150
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15126	15126	15126
5°	15336	12321	10835
10°	15310	11236	13975
15°	15242	14482	15255
20°	15242	15173	15308
25°	15215	15249	15389
30°	15171	15221	15417
35°	15147	15315	15494
40°	15149	15314	15533
45°	15030	15324	9523
50°	14860	15355	10150
55°	14547	9233	11503
60°	13876	9517	10534
65°	13002	11427	6445
70°	11481	8657	7901
75°	9148	7869	5479
80°	6302	5687	4709
85°	6037	5250	4981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.1	3.0
10°-20°	2347.0	9.5
20°-30°	3861.2	15.6
30°-40°	4855.0	19.6
40°-50°	4761.5	19.2
50°-60°	3945.2	15.9
60°-70°	2782.6	11.2
70°-80°	1214.0	4.9
80°-90°	303.3	1.2
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°	6957.3	28.0
0°-40°	11812.3	47.6
0°-60°	20519.0	82.7
0°-90°	24819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9368	9368	9368	9368	9368	
5°	9462	8807	7602	6893	6685	898
15°	9118	6333	8664	9154	9126	2579
25°	8540	7815	8560	8617	8638	3937
35°	7685	7680	7770	7821	7861	4815
45°	6582	6603	6711	5944	4171	5081
55°	5168	5337	3280	3729	4086	4624
65°	3403	3604	2991	2301	1687	3346
75°	1466	1437	1261	824	878	1573
85°	326	290	283	271	269	338
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9368.4	9368.4	9368.4	9368.4	9368.4
2.5°	9445.7	9249.6	8938.2	8546.1	8407.3
5°	9462.5	8807.1	7601.8	6892.7	6685.4
7.5°	9414.3	8003.9	6627.2	6776.1	6995.8
10°	9338.1	7298.2	6853.5	8063.3	8523.7
12.5°	9240.7	6670.9	7851.5	9108.5	9200.3
15°	9118.5	6332.6	8663.8	9154.4	9126.4
17.5°	9015.5	6530.9	8955.0	9062.5	9042.3
20°	8871.0	6926.3	8830.7	8916.9	8909.1
22.5°	8725.3	7394.5	8713.0	8774.7	8774.7
25°	8540.5	7814.6	8559.5	8616.7	8638.0
27.5°	8337.7	8056.5	8368.0	8415.0	8453.1
30°	8137.2	8091.4	8164.2	8224.6	8269.4
32.5°	7925.5	7907.6	7964.7	8028.6	8085.7
35°	7684.6	7680.2	7769.8	7821.3	7860.6
37.5°	7458.4	7442.7	7525.6	7597.3	7627.5
40°	7187.3	7187.3	7265.7	7338.5	7369.9
42.5°	6878.1	6921.9	6982.3	7057.3	6356.1
45°	6582.4	6602.6	6711.2	5943.9	4170.6
47.5°	6297.8	6323.6	6426.7	3821.0	3925.3
50°	5915.9	6032.3	6113.0	3809.9	4040.7
52.5°	5637.0	5687.3	5131.7	3771.8	3901.7
55°	5167.6	5336.7	3279.9	3729.2	4086.5
57.5°	4766.6	4889.8	3225.1	3821.0	4042.8
60°	4297.2	4485.4	2947.2	3686.7	3262.0
62.5°	3846.8	4026.0	3077.2	2901.4	2762.4
65°	3403.2	3603.7	2991.0	2300.9	1687.0
67.5°	2917.0	2730.0	2386.1	1621.0	1706.1
70°	2432.0	1906.6	1833.8	1812.5	1673.6
72.5°	1933.5	1391.3	1217.6	1360.0	973.5
75°	1466.4	1437.3	1261.4	824.5	878.3
77.5°	1017.1	1037.3	675.5	804.3	667.6
80°	677.8	587.0	611.6	513.0	506.4
82.5°	469.4	479.4	402.1	389.8	395.5
85°	325.9	290.1	283.4	271.1	268.9
87.5°	108.6	126.6	117.7	106.4	113.2
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)