

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: P730706

Luminaire Tested: **HBLED-LD5-24HE-W-CLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CLI-UNV-L735
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23213.0 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

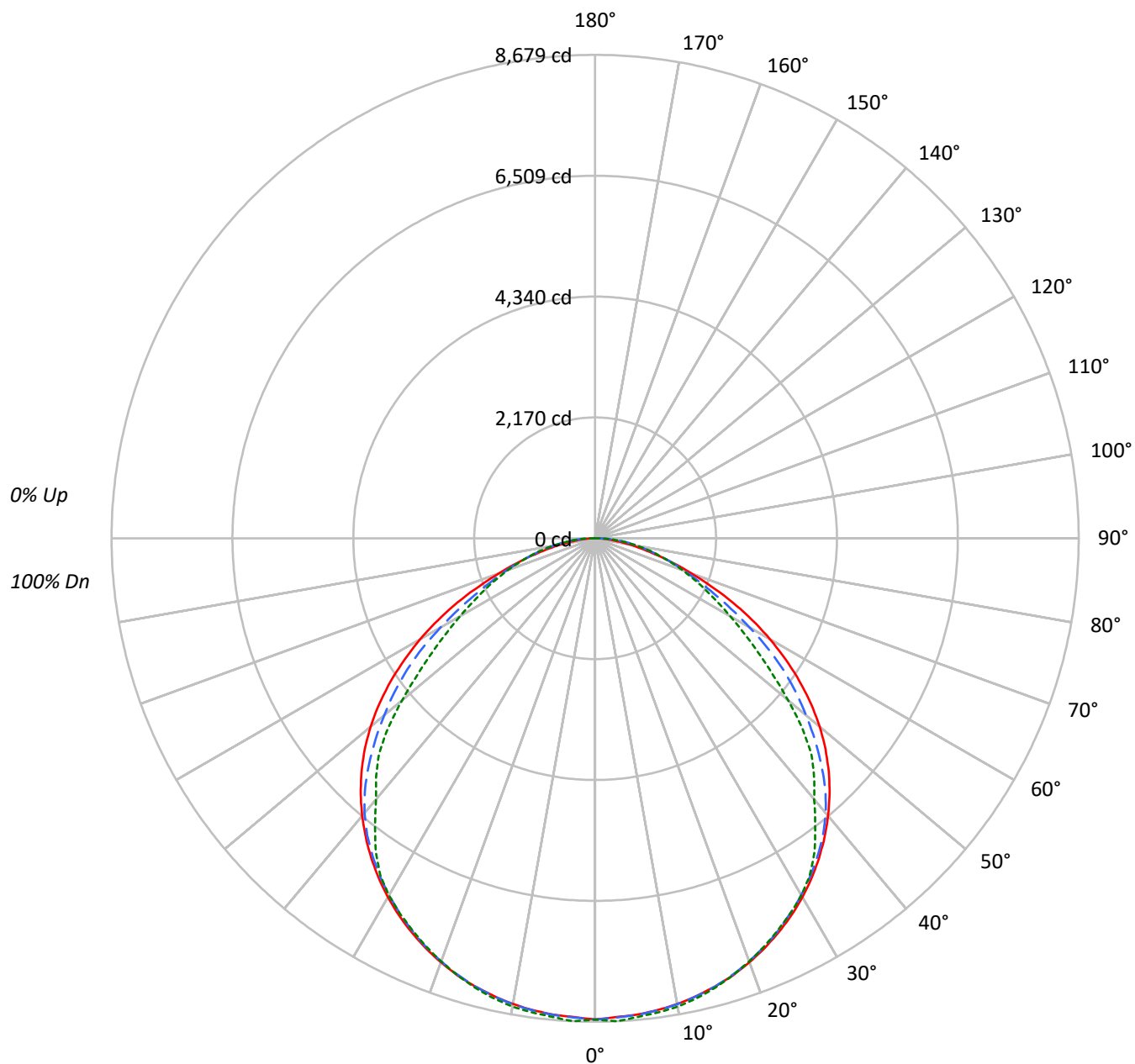
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13950	13950	13950
5°	13913	13923	13985
10°	13920	13927	14000
15°	13922	13920	13953
20°	13919	13887	13890
25°	13897	13846	13829
30°	13875	13792	13799
35°	13810	13724	13530
40°	13712	13572	12887
45°	13537	13104	12531
50°	13212	12407	11349
55°	12610	11603	10035
60°	11703	10353	9050
65°	10402	8964	8322
70°	8632	8011	7844
75°	6982	7331	7422
80°	5545	7012	6983
85°	4342	7532	7186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.4	3.5
10°-20°	2356.9	10.2
20°-30°	3593.8	15.5
30°-40°	4348.0	18.7
40°-50°	4404.1	19.0
50°-60°	3640.1	15.7
60°-70°	2404.2	10.4
70°-80°	1253.7	5.4
80°-90°	393.0	1.7
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°	6770.0	29.2
0°-40°	11118.0	47.9
0°-60°	19162.1	82.5
0°-90°	23213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8640	8640	8640	8640	8640	
5°	8584	8636	8590	8628	8629	816
15°	8329	8371	8328	8354	8348	2352
25°	7801	7832	7772	7792	7762	3597
35°	7006	7016	6963	6954	6864	4382
45°	5929	5913	5739	5560	5488	4565
55°	4480	4413	4122	3722	3565	3993
65°	2723	2644	2346	2194	2178	2689
75°	1119	1139	1175	1191	1190	1219
85°	234	302	407	404	388	285
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8640.0	8640.0	8640.0	8640.0	8640.0
2.5°	8603.7	8654.5	8612.0	8649.3	8679.4
5°	8584.0	8635.9	8590.2	8627.6	8628.6
7.5°	8545.7	8597.5	8550.8	8588.1	8587.1
10°	8490.6	8539.4	8494.8	8539.4	8539.4
12.5°	8416.0	8463.7	8420.2	8461.6	8455.3
15°	8328.9	8371.4	8327.9	8353.8	8347.5
17.5°	8226.2	8264.6	8215.8	8237.5	8225.1
20°	8100.7	8135.9	8082.0	8110.0	8084.0
22.5°	7959.5	7992.7	7937.8	7958.6	7929.5
25°	7800.9	7832.1	7771.9	7791.6	7762.5
27.5°	7629.7	7657.7	7590.3	7614.2	7591.3
30°	7442.0	7455.5	7397.5	7428.6	7401.6
32.5°	7232.5	7240.8	7189.9	7217.9	7172.4
35°	7006.4	7015.7	6962.9	6953.5	6864.3
37.5°	6764.7	6768.9	6719.1	6635.0	6487.8
40°	6505.5	6503.4	6439.1	6245.1	6114.4
42.5°	6228.4	6227.5	6114.4	5893.4	5818.8
45°	5928.7	5913.2	5738.9	5560.5	5487.9
47.5°	5607.2	5590.6	5346.8	5204.8	5039.8
50°	5259.7	5230.7	4939.2	4745.2	4518.1
52.5°	4885.3	4840.6	4544.0	4230.8	4016.1
55°	4479.7	4413.3	4121.9	3721.6	3564.9
57.5°	4057.6	3959.1	3675.9	3285.9	3158.3
60°	3624.1	3514.1	3206.0	2885.6	2802.5
62.5°	3178.0	3069.2	2754.9	2513.2	2467.5
65°	2722.7	2643.8	2346.2	2193.7	2178.2
67.5°	2255.9	2227.9	2000.8	1923.0	1916.8
70°	1828.6	1823.4	1696.9	1657.4	1661.6
72.5°	1461.5	1455.2	1436.6	1416.8	1417.9
75°	1119.2	1138.8	1175.2	1190.7	1189.7
77.5°	835.0	875.4	952.1	983.3	978.1
80°	596.4	656.6	754.1	783.1	751.0
82.5°	397.2	460.5	575.6	579.8	553.9
85°	234.4	301.8	406.6	403.5	387.9
87.5°	116.1	181.5	243.7	233.3	223.0
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)