

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: P730729

Luminaire Tested: **HBLED-LD5-24HE-W-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730729
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-LD5-24HE-W-WG-UNV-L850
Description: 24000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23729.0 lumens
Efficiency: N/A
Efficacy: 165.9 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

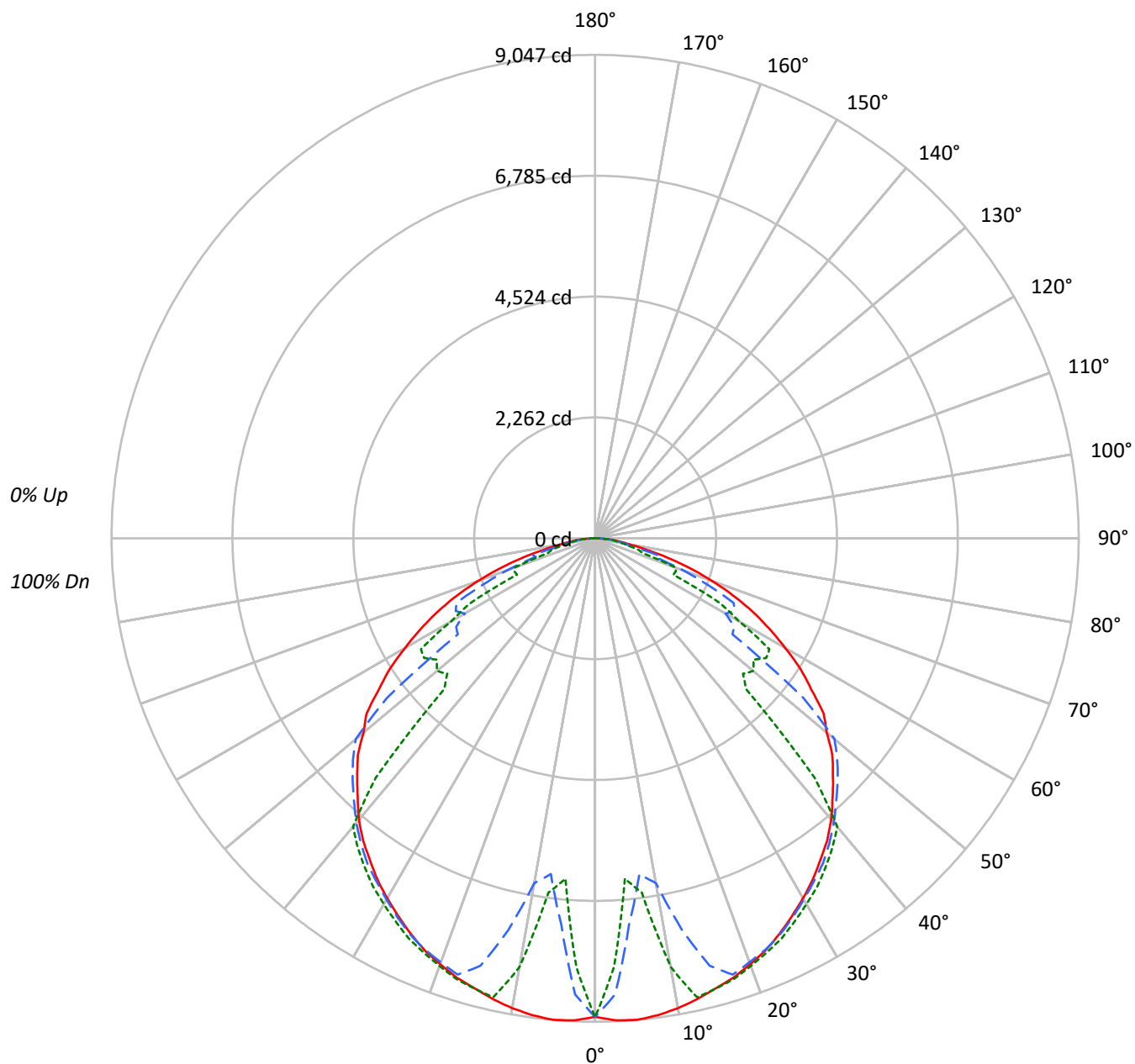
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14462	14462	14462
5°	14663	11779	10360
10°	14637	10743	13361
15°	14573	13846	14585
20°	14573	14507	14635
25°	14547	14579	14713
30°	14504	14552	14740
35°	14481	14642	14813
40°	14483	14641	14851
45°	14370	14651	9105
50°	14207	14681	9704
55°	13908	8827	10998
60°	13267	9099	10071
65°	12431	10925	6162
70°	10977	8277	7554
75°	8746	7523	5238
80°	6025	5437	4501
85°	5772	5019	4761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.2	3.0
10°-20°	2243.9	9.5
20°-30°	3691.6	15.6
30°-40°	4641.8	19.6
40°-50°	4552.4	19.2
50°-60°	3771.9	15.9
60°-70°	2660.4	11.2
70°-80°	1160.7	4.9
80°-90°	290.0	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°	6651.8	28.0
0°-40°	11293.5	47.6
0°-60°	19617.9	82.7
0°-90°	23729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8957	8957	8957	8957	8957	
5°	9047	8420	7268	6590	6392	859
15°	8718	6054	8283	8752	8726	2465
25°	8166	7471	8184	8238	8259	3764
35°	7347	7343	7428	7478	7515	4603
45°	6293	6313	6416	5683	3987	4858
55°	4941	5102	3136	3566	3907	4420
65°	3254	3445	2860	2200	1613	3199
75°	1402	1374	1206	788	840	1503
85°	312	277	271	259	257	323
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8956.9	8956.9	8956.9	8956.9	8956.9
2.5°	9030.8	8843.4	8545.6	8170.8	8038.0
5°	9046.9	8420.3	7267.9	6590.0	6391.8
7.5°	9000.9	7652.4	6336.2	6478.5	6688.5
10°	8928.0	6977.7	6552.5	7709.2	8149.4
12.5°	8834.8	6377.9	7506.7	8708.5	8796.2
15°	8718.1	6054.5	8283.3	8752.4	8725.6
17.5°	8619.5	6244.0	8561.7	8664.5	8645.2
20°	8481.4	6622.1	8442.9	8525.3	8517.8
22.5°	8342.1	7069.7	8330.3	8389.3	8389.3
25°	8165.5	7471.4	8183.6	8238.3	8258.7
27.5°	7971.5	7702.7	8000.5	8045.4	8081.9
30°	7779.8	7736.0	7805.6	7863.4	7906.2
32.5°	7577.5	7560.4	7614.9	7676.0	7730.6
35°	7347.1	7342.9	7428.5	7477.8	7515.4
37.5°	7130.8	7115.9	7195.1	7263.7	7292.6
40°	6871.7	6871.7	6946.6	7016.2	7046.3
42.5°	6576.0	6617.9	6675.7	6747.4	6076.9
45°	6293.3	6312.6	6416.4	5682.9	3987.4
47.5°	6021.2	6045.8	6144.5	3653.2	3752.9
50°	5656.0	5767.4	5844.5	3642.6	3863.2
52.5°	5389.4	5437.5	4906.3	3606.2	3730.3
55°	4940.6	5102.3	3135.9	3565.5	3907.0
57.5°	4557.2	4675.0	3083.5	3653.2	3865.3
60°	4108.5	4288.4	2817.8	3524.8	3118.8
62.5°	3677.9	3849.2	2942.1	2774.0	2641.1
65°	3253.7	3445.4	2859.6	2199.9	1612.9
67.5°	2788.9	2610.1	2281.3	1549.8	1631.2
70°	2325.2	1822.9	1753.3	1732.9	1600.1
72.5°	1848.6	1330.2	1164.2	1300.3	930.7
75°	1402.0	1374.1	1206.0	788.3	839.7
77.5°	972.5	991.8	645.8	768.9	638.3
80°	648.0	561.3	584.7	490.5	484.1
82.5°	448.8	458.4	384.5	372.7	378.1
85°	311.6	277.4	270.9	259.2	257.0
87.5°	103.8	121.1	112.5	101.8	108.2
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)