

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: P730873

Luminaire Tested: **HBLED-LD5-30HE-W-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730873
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-LD5-30HE-W-WG-UNV-L850
Description: 30000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30368.0 lumens
Efficiency: N/A
Efficacy: 169.7 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

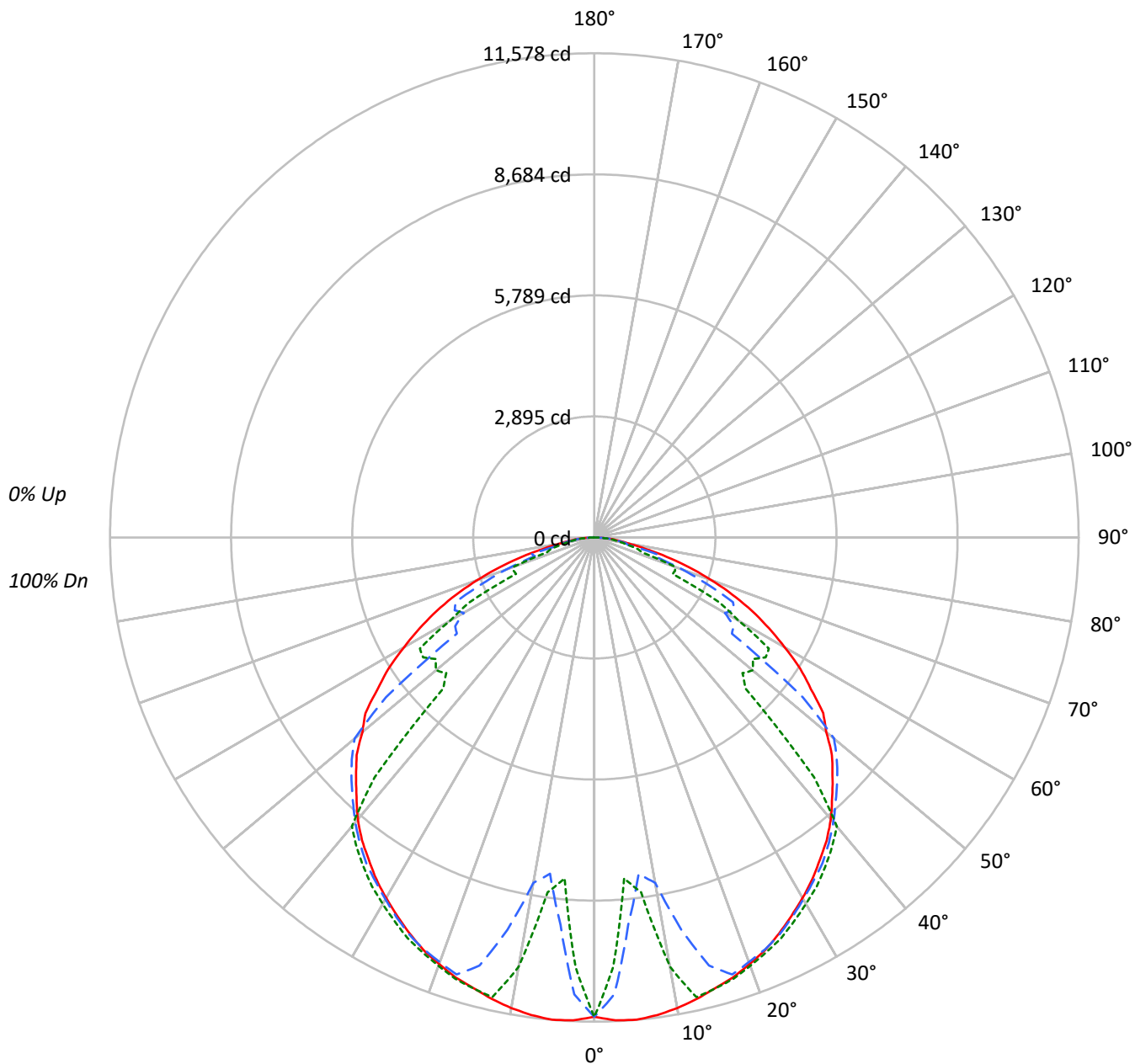
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730873

CATALOG NUMBER: HBLED-LD5-30HE-W-WG-UNV-L850

Luminous Intensity Polar Plot





TEST NUMBER: P730873

CATALOG NUMBER: HBLED-LD5-30HE-W-WG-UNV-L850

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°	18508	18508	18508
5°	18765	15075	13258
10°	18733	13748	17099
15°	18650	17720	18666
20°	18650	18565	18730
25°	18617	18658	18829
30°	18563	18624	18864
35°	18533	18739	18958
40°	18536	18738	19007
45°	18390	18750	11652
50°	18182	18788	12419
55°	17799	11297	14075
60°	16979	11645	12889
65°	15909	13982	7886
70°	14048	10592	9667
75°	11193	9628	6704
80°	7711	6958	5761
85°	7388	6423	6095



TEST NUMBER: P730873

CATALOG NUMBER: HBLED-LD5-30HE-W-WG-UNV-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	916.6	3.0
10°-20°	2871.7	9.5
20°-30°	4724.5	15.6
30°-40°	5940.5	19.6
40°-50°	5826.1	19.2
50°-60°	4827.2	15.9
60°-70°	3404.8	11.2
70°-80°	1485.5	4.9
80°-90°	371.1	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°	8512.8	28.0
0°-40°	14453.3	47.6
0°-60°	25106.6	82.7
0°-90°	30368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30368.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11463	11463	11463	11463	11463	
5°	11578	10776	9301	8434	8180	###
15°	11157	7748	10601	11201	11167	3155
25°	10450	9562	10473	10543	10569	4817
35°	9403	9397	9507	9570	9618	5891
45°	8054	8079	8212	7273	5103	6217
55°	6323	6530	4013	4563	5000	5657
65°	4164	4409	3660	2815	2064	4094
75°	1794	1759	1543	1009	1075	1924
85°	399	355	347	332	329	414
90°	0	0	0	0	0	



TEST NUMBER: P730873

CATALOG NUMBER: HBLED-LD5-30HE-W-WG-UNV-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11463.0	11463.0	11463.0	11463.0	11463.0
2.5°	11557.5	11317.6	10936.6	10456.8	10286.9
5°	11578.1	10776.2	9301.4	8433.8	8180.1
7.5°	11519.2	9793.4	8108.9	8291.1	8559.9
10°	11426.0	8930.0	8385.8	9866.1	10429.5
12.5°	11306.7	8162.4	9607.0	11144.9	11257.3
15°	11157.2	7748.5	10600.8	11201.2	11166.8
17.5°	11031.1	7991.0	10957.2	11088.7	11064.0
20°	10854.3	8474.9	10805.0	10910.5	10900.9
22.5°	10676.1	9047.8	10661.0	10736.5	10736.5
25°	10450.0	9561.8	10473.3	10543.2	10569.3
27.5°	10201.9	9857.8	10238.9	10296.4	10343.0
30°	9956.5	9900.4	9989.5	10063.5	10118.3
32.5°	9697.5	9675.6	9745.5	9823.6	9893.5
35°	9402.8	9397.3	9506.9	9570.0	9618.1
37.5°	9125.9	9106.8	9208.2	9295.9	9332.9
40°	8794.3	8794.3	8890.1	8979.2	9017.7
42.5°	8415.9	8469.4	8543.4	8635.2	7777.2
45°	8054.1	8078.8	8211.7	7272.8	5103.0
47.5°	7705.9	7737.4	7863.6	4675.3	4802.9
50°	7238.5	7381.0	7479.7	4661.7	4944.1
52.5°	6897.3	6958.8	6279.0	4615.1	4774.0
55°	6323.0	6529.8	4013.3	4563.0	5000.2
57.5°	5832.2	5983.0	3946.2	4675.3	4946.7
60°	5257.9	5488.2	3606.2	4510.9	3991.4
62.5°	4706.9	4926.2	3765.2	3550.1	3380.1
65°	4164.1	4409.4	3659.7	2815.4	2064.2
67.5°	3569.2	3340.4	2919.5	1983.4	2087.6
70°	2975.8	2332.9	2243.8	2217.8	2047.8
72.5°	2365.8	1702.4	1489.9	1664.0	1191.1
75°	1794.3	1758.6	1543.4	1008.8	1074.6
77.5°	1244.5	1269.2	826.5	984.1	816.9
80°	829.3	718.3	748.3	627.7	619.6
82.5°	574.3	586.6	492.0	476.9	483.9
85°	398.8	355.0	346.7	331.8	329.0
87.5°	132.9	154.9	144.0	130.2	138.5
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)