

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: P730824

Luminaire Tested: **HBLED-LD5-30HE-N-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-UNV-L840
Description: 30000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30286.0 lumens
Efficiency: N/A
Efficacy: 169.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

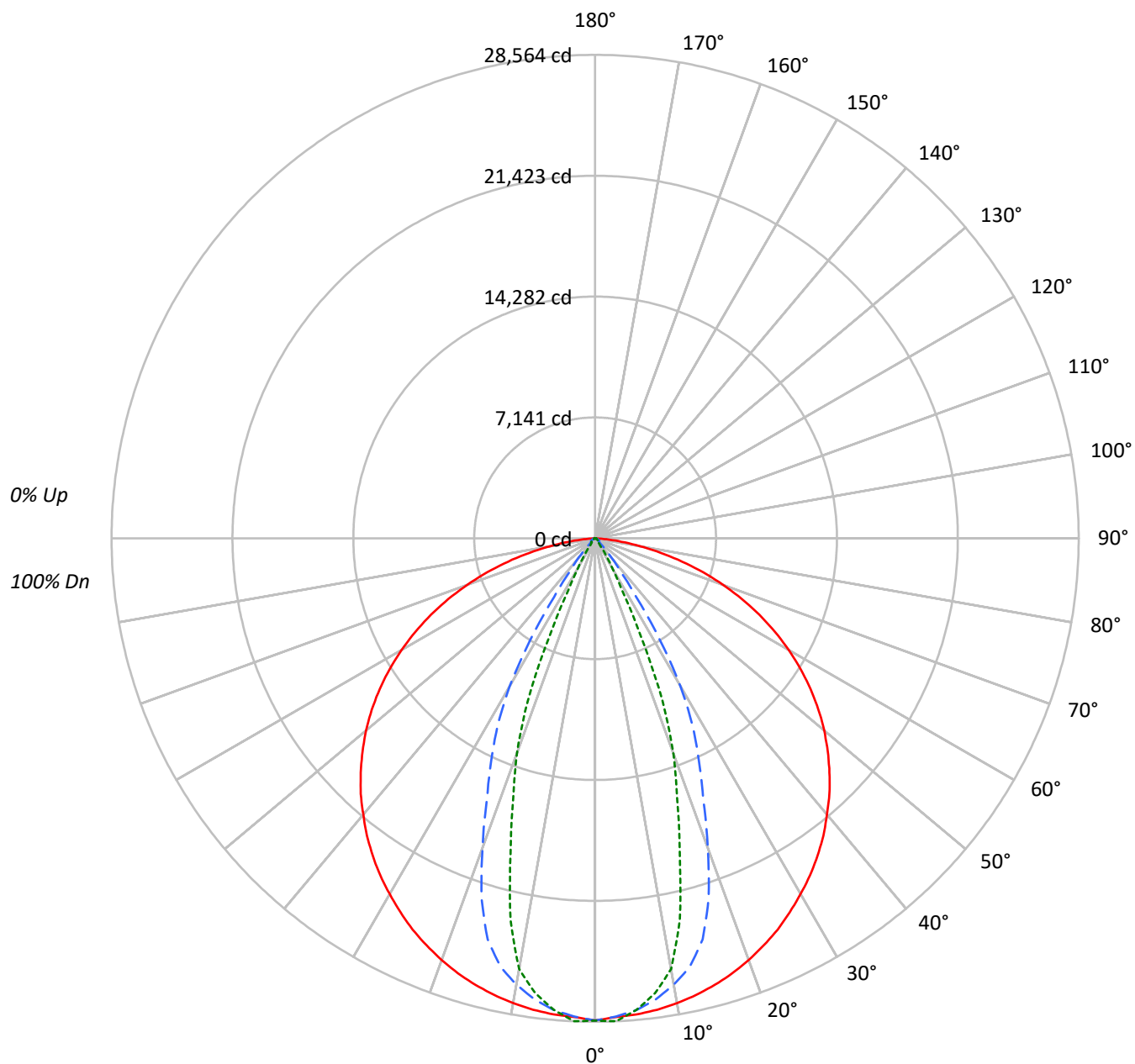
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730824

CATALOG NUMBER: HBLED-LD5-30HE-N-UNV-L840

Luminous Intensity Polar Plot





TEST NUMBER: P730824

CATALOG NUMBER: HBLED-LD5-30HE-N-UNV-L840

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55		
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44		
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46007	46007	46007
5°	45761	45356	45337
10°	45732	43903	42363
15°	45668	41016	32240
20°	45561	33436	23207
25°	45445	25853	11432
30°	45244	18790	3707
35°	45138	8336	954
40°	44901	3386	643
45°	44700	950	684
50°	44352	674	759
55°	43713	801	325
60°	42634	893	197
65°	40880	570	233
70°	37978	506	288
75°	33224	381	397
80°	24842	467	567
85°	12305	602	752



TEST NUMBER: P730824

CATALOG NUMBER: HBLED-LD5-30HE-N-UNV-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2644.3	8.7
10°-20°	6612.1	21.8
20°-30°	7162.0	23.6
30°-40°	5303.7	17.5
40°-50°	3820.1	12.6
50°-60°	2365.3	7.8
60°-70°	1454.6	4.8
70°-80°	766.8	2.5
80°-90°	157.0	0.5
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°	16418.4	54.2
0°-40°	21722.1	71.7
0°-60°	27907.5	92.1
0°-90°	30286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28494	28494	28494	28494	28494	
5°	28234	28339	27985	28005	27973	###
15°	27321	26686	24538	20867	19288	7712
25°	25510	23367	14512	9129	6417	11754
35°	22900	16144	4229	995	484	14327
45°	19576	9096	416	301	300	15097
55°	15529	1873	285	258	115	13863
65°	10700	198	149	95	61	10558
75°	5326	46	61	80	64	5625
85°	664	18	32	49	41	###
90°	0	0	0	0	0	



TEST NUMBER: P730824

CATALOG NUMBER: HBLED-LD5-30HE-N-UNV-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28494.4	28494.4	28494.4	28494.4	28494.4
2.5°	28311.4	28491.8	28279.0	28437.6	28563.6
5°	28234.2	28338.6	27984.8	28005.1	27972.6
7.5°	28098.6	28074.2	27479.2	27218.9	27105.1
10°	27894.0	27732.6	26778.4	26234.8	25839.0
12.5°	27629.7	27269.1	25904.1	24175.8	23102.2
15°	27320.6	26686.2	24537.7	20867.0	19287.7
17.5°	26951.8	26053.2	22303.8	17488.9	16079.3
20°	26516.7	25346.9	19459.8	14879.6	13506.5
22.5°	26031.4	24487.5	16697.4	12366.4	10407.7
25°	25509.6	23366.6	14512.2	9129.4	6417.0
27.5°	24906.4	21925.6	12462.7	5377.4	3275.0
30°	24268.0	20190.5	10078.3	2892.6	1988.6
32.5°	23624.1	18223.6	7131.4	1806.9	1127.8
35°	22900.3	16144.3	4229.2	995.0	484.0
37.5°	22145.1	14238.4	2499.6	452.8	310.4
40°	21303.4	12496.6	1606.3	300.9	304.9
42.5°	20490.2	10872.7	904.2	296.8	302.3
45°	19576.4	9095.5	416.1	300.9	299.6
47.5°	18631.6	7253.3	269.7	303.6	303.6
50°	17657.1	5186.3	268.4	310.4	302.3
52.5°	16628.2	3235.7	279.3	309.1	248.1
55°	15528.9	1873.3	284.6	257.5	115.3
57.5°	14390.2	1104.7	287.4	147.7	65.1
60°	13202.8	611.3	276.5	109.8	61.0
62.5°	11978.7	291.4	218.2	103.1	59.6
65°	10700.4	197.9	149.1	94.8	61.0
67.5°	9373.4	153.1	117.9	89.5	62.3
70°	8045.0	113.8	107.1	89.5	61.0
72.5°	6695.0	77.3	89.5	90.8	61.0
75°	5325.8	46.1	61.0	80.0	63.7
77.5°	3968.9	28.4	47.4	82.7	77.3
80°	2671.7	24.4	50.2	77.3	61.0
82.5°	1568.4	21.7	48.9	59.6	48.9
85°	664.2	17.7	32.5	48.9	40.6
87.5°	124.7	14.9	25.8	39.3	35.2
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)