

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: P730825

Luminaire Tested: **HBLED-LD5-30HE-N-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730825
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-L850
Description: 30000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30880.0 lumens
Efficiency: N/A
Efficacy: 172.5 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

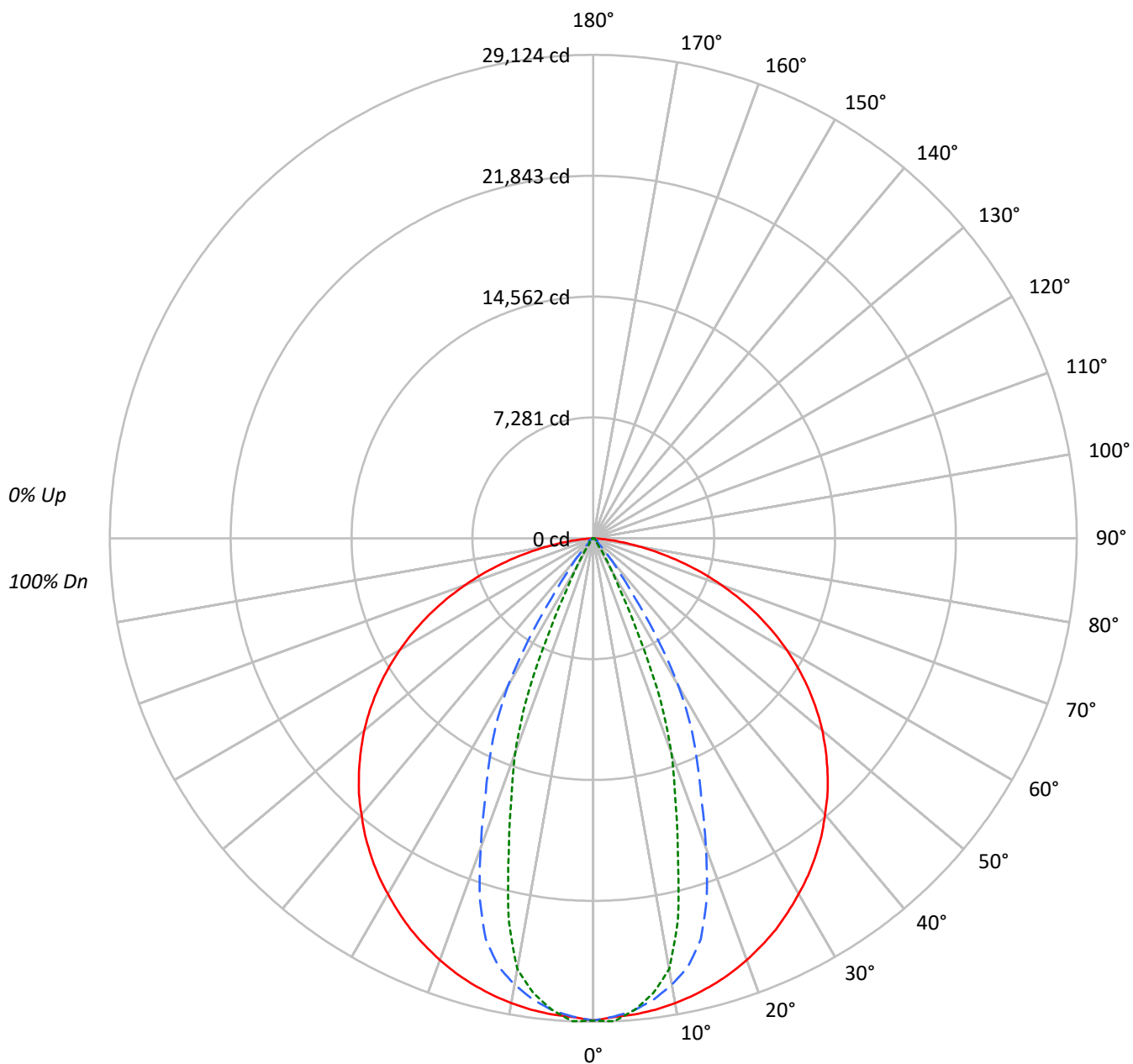
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	46909	46909	46909
5°	46658	46246	46226
10°	46629	44764	43194
15°	46563	41820	32873
20°	46455	34092	23662
25°	46337	26360	11656
30°	46132	19158	3780
35°	46023	8499	973
40°	45782	3452	655
45°	45577	969	697
50°	45222	687	774
55°	44570	817	331
60°	43470	910	201
65°	41682	581	238
70°	38723	516	294
75°	33875	388	405
80°	25329	476	578
85°	12545	613	767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2696.2	8.7
10°-20°	6741.8	21.8
20°-30°	7302.4	23.6
30°-40°	5407.8	17.5
40°-50°	3895.0	12.6
50°-60°	2411.7	7.8
60°-70°	1483.2	4.8
70°-80°	781.9	2.5
80°-90°	160.0	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°	16740.4	54.2
0°-40°	22148.2	71.7
0°-60°	28454.9	92.1
0°-90°	30880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29053	29053	29053	29053	29053	
5°	28788	28894	28534	28554	28521	###
15°	27856	27210	25019	21276	19666	7864
25°	26010	23825	14797	9308	6543	11985
35°	23349	16461	4312	1014	494	14608
45°	19960	9274	424	307	305	15394
55°	15834	1910	290	263	118	14135
65°	10910	202	152	97	62	10765
75°	5430	47	62	82	65	5736
85°	677	18	33	50	41	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29053.3	29053.3	29053.3	29053.3	29053.3
2.5°	28866.7	29050.6	28833.6	28995.3	29123.8
5°	28787.9	28894.4	28533.6	28554.3	28521.2
7.5°	28649.7	28624.9	28018.1	27752.8	27636.7
10°	28441.1	28276.6	27303.6	26749.4	26345.8
12.5°	28171.6	27803.9	26412.2	24649.9	23555.3
15°	27856.4	27209.6	25018.9	21276.3	19666.0
17.5°	27480.4	26564.1	22741.2	17831.9	16394.6
20°	27036.8	25844.0	19841.5	15171.4	13771.4
22.5°	26542.0	24967.8	17024.9	12609.0	10611.8
25°	26009.9	23824.8	14796.8	9308.5	6542.9
27.5°	25394.9	22355.6	12707.1	5482.9	3339.2
30°	24744.0	20586.5	10275.9	2949.4	2027.6
32.5°	24087.4	18581.0	7271.3	1842.4	1149.9
35°	23349.4	16460.9	4312.1	1014.5	493.5
37.5°	22579.5	14517.7	2548.6	461.7	316.5
40°	21721.3	12741.7	1637.8	306.8	310.9
42.5°	20892.0	11085.9	921.9	302.6	308.2
45°	19960.4	9273.9	424.3	306.8	305.4
47.5°	18997.1	7395.6	275.0	309.6	309.6
50°	18003.4	5288.0	273.6	316.5	308.2
52.5°	16954.4	3299.1	284.7	315.2	252.9
55°	15833.5	1910.1	290.2	262.6	117.5
57.5°	14672.5	1126.4	293.0	150.6	66.4
60°	13461.7	623.3	281.9	111.9	62.2
62.5°	12213.6	297.2	222.5	105.1	60.8
65°	10910.3	201.8	152.0	96.7	62.2
67.5°	9557.3	156.1	120.2	91.2	63.6
70°	8202.8	116.1	109.2	91.2	62.2
72.5°	6826.3	78.8	91.2	92.6	62.2
75°	5430.2	47.0	62.2	81.6	64.9
77.5°	4046.8	29.0	48.3	84.3	78.8
80°	2724.1	24.8	51.2	78.8	62.2
82.5°	1599.2	22.2	49.8	60.8	49.8
85°	677.2	18.0	33.1	49.8	41.4
87.5°	127.1	15.2	26.3	40.1	35.9
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)