

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: P730819

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-CLI-UNV-L850
Description: 30000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28571.0 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

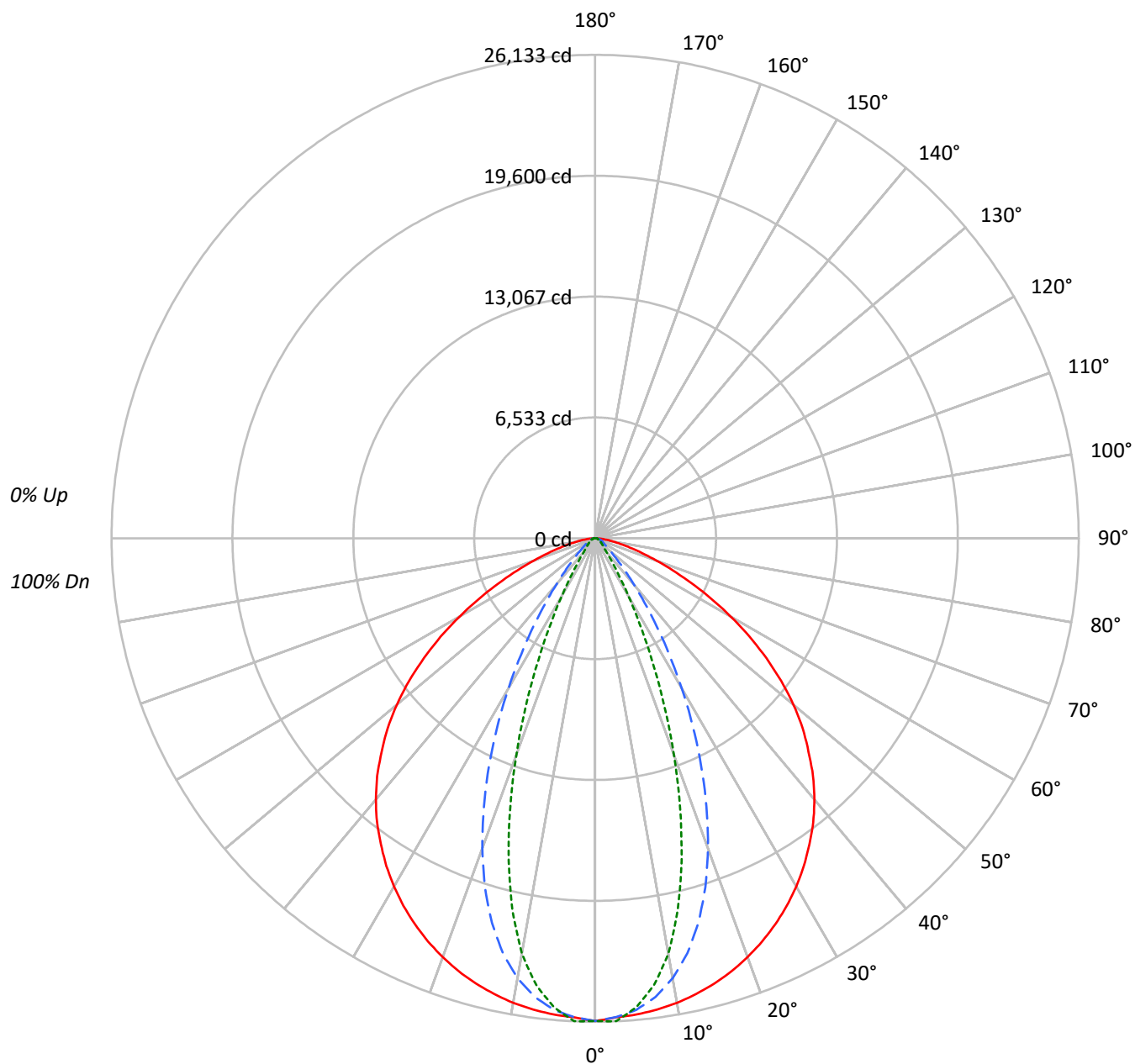
Input Watts (W): 179
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42137	42137	42137
5°	41883	41467	41249
10°	41813	39589	37358
15°	41645	35986	30171
20°	41395	30621	21384
25°	41025	24145	12920
30°	40526	17426	6640
35°	39795	11393	3316
40°	38851	6843	1935
45°	37237	4087	1447
50°	35121	2672	1215
55°	31786	2027	1060
60°	27316	1727	967
65°	21972	1576	914
70°	16553	1687	908
75°	12176	1604	934
80°	8908	1597	1023
85°	6673	1936	1323



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2403.4	8.4
10°-20°	5979.3	20.9
20°-30°	6622.9	23.2
30°-40°	5306.1	18.6
40°-50°	3787.9	13.3
50°-60°	2433.0	8.5
60°-70°	1318.5	4.6
70°-80°	563.6	2.0
80°-90°	156.3	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°	15005.6	52.5
0°-40°	20311.7	71.1
0°-60°	26532.6	92.9
0°-90°	28571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26098	26098	26098	26098	26098	
5°	25842	25938	25585	25504	25450	###
15°	24914	24135	21528	19025	18050	7029
25°	23028	20305	13553	8830	7252	10609
35°	20190	14603	5780	2331	1682	12623
45°	16308	8430	1790	762	634	12570
55°	11292	3769	720	443	377	10063
65°	5751	1548	412	285	239	5759
75°	1952	566	257	179	150	2169
85°	360	150	104	87	71	440
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26097.5	26097.5	26097.5	26097.5	26097.5
2.5°	25925.7	26087.9	25913.3	26021.9	26133.2
5°	25841.9	25938.2	25584.8	25503.7	25450.2
7.5°	25696.1	25668.6	25004.8	24574.5	24366.9
10°	25503.7	25281.0	24147.0	23201.4	22786.2
12.5°	25228.8	24769.7	22985.5	21325.0	20621.3
15°	24914.0	24134.7	21528.4	19025.4	18049.5
17.5°	24537.4	23392.4	19786.9	16559.5	15271.5
20°	24092.0	22496.2	17821.3	13939.5	12445.3
22.5°	23594.5	21462.5	15716.8	11327.8	9725.1
25°	23028.1	20305.1	13553.3	8830.3	7252.2
27.5°	22416.5	19020.0	11402.1	6597.9	5158.7
30°	21737.4	17628.9	9347.0	4757.4	3561.5
32.5°	20996.5	16149.8	7437.9	3345.7	2435.8
35°	20189.7	14603.4	5780.0	2331.2	1682.4
37.5°	19363.5	13025.4	4365.6	1648.0	1206.9
40°	18432.9	11452.8	3246.8	1206.9	918.1
42.5°	17433.7	9910.6	2402.8	929.1	743.6
45°	16307.9	8430.2	1789.7	761.6	633.7
47.5°	15216.5	7050.2	1359.4	648.8	551.2
50°	13982.1	5804.9	1063.9	566.4	483.8
52.5°	12672.2	4709.3	863.2	499.0	426.1
55°	11292.0	3769.0	720.2	442.6	376.7
57.5°	9894.2	2985.5	615.8	394.4	335.4
60°	8459.1	2387.6	534.7	353.2	299.6
62.5°	7058.5	1909.3	467.3	317.5	268.1
65°	5751.2	1547.7	412.4	284.6	239.2
67.5°	4542.9	1223.4	384.9	255.6	215.9
70°	3506.5	952.6	357.4	228.2	192.4
72.5°	2657.0	731.3	316.2	203.4	170.5
75°	1951.8	566.4	257.1	178.7	149.8
77.5°	1396.6	435.8	208.9	155.3	129.3
80°	958.1	324.5	171.8	133.3	110.0
82.5°	622.7	229.6	138.8	110.0	90.7
85°	360.2	149.8	104.5	86.6	71.4
87.5°	155.3	82.4	71.4	64.6	54.9
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)