

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: P730933

Luminaire Tested: **HBLED-LD5-30SE-W-FLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-W-FLI-UNV-L850
Description: 30000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28388.0 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

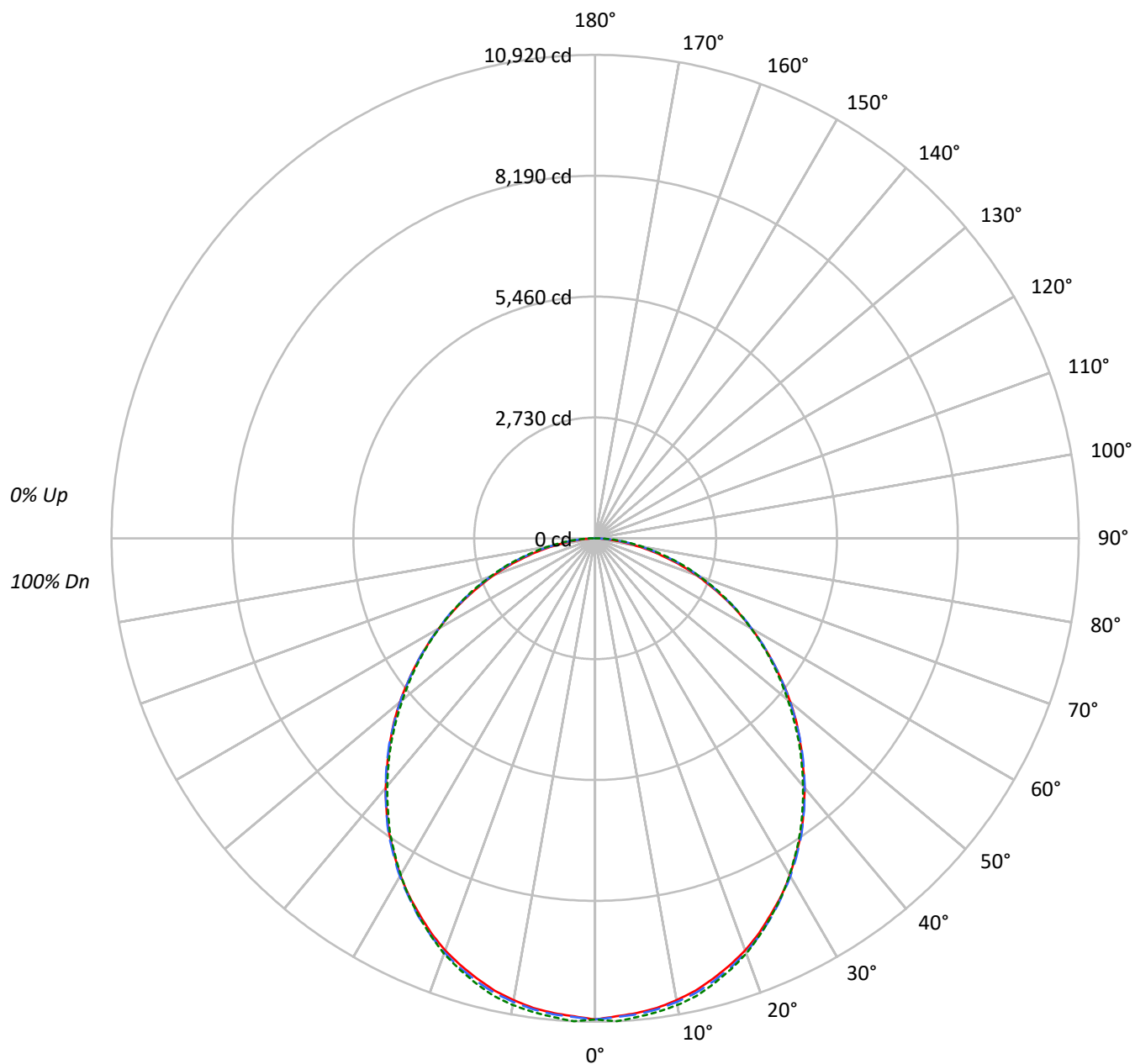
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17547	17547	17547
5°	17447	17496	17596
10°	17368	17438	17551
15°	17215	17309	17393
20°	17020	17102	17152
25°	16705	16800	16775
30°	16397	16441	16374
35°	15991	16032	15930
40°	15510	15510	15391
45°	14968	15009	14856
50°	14454	14429	14249
55°	13828	13830	13705
60°	13159	13174	13123
65°	12402	12526	12557
70°	11454	11768	11781
75°	10123	10779	10946
80°	8302	9439	9973
85°	5761	7925	8963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1027.8	3.6
10°-20°	2923.9	10.3
20°-30°	4345.1	15.3
30°-40°	5080.6	17.9
40°-50°	5065.5	17.8
50°-60°	4395.0	15.5
60°-70°	3246.2	11.4
70°-80°	1817.5	6.4
80°-90°	484.9	1.7
90°-100°	1.5	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°	8296.9	29.2
0°-40°	13377.5	47.1
0°-60°	22837.9	80.4
0°-90°	28386.5	100.0
90°-120°	1.5	0.0
90°-150°	1.5	0.0
90°-180°	1.0	0.0
0°-180°	28388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10868	10868	10868	10868	10868	
5°	10765	10833	10795	10843	10857	###
15°	10299	10371	10355	10405	10405	2905
25°	9377	9452	9430	9451	9416	4323
35°	8113	8184	8134	8132	8082	5068
45°	6555	6625	6573	6546	6506	5060
55°	4912	4946	4913	4905	4869	4393
65°	3246	3278	3279	3295	3287	3210
75°	1623	1671	1728	1740	1755	1728
85°	311	376	428	466	484	378
90°	0	7	8	19	17	13
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10867.7	10867.7	10867.7	10867.7	10867.7
2.5°	10808.3	10872.7	10827.6	10870.5	10920.3
5°	10764.8	10832.6	10795.1	10842.8	10856.7
7.5°	10701.2	10766.9	10730.9	10778.6	10793.1
10°	10593.3	10664.6	10636.2	10690.2	10705.4
12.5°	10467.6	10534.6	10516.0	10578.8	10589.2
15°	10299.0	10370.9	10354.9	10404.7	10405.4
17.5°	10112.4	10180.0	10168.3	10207.1	10205.6
20°	9905.8	9978.2	9953.5	9995.6	9982.4
22.5°	9661.1	9738.5	9707.3	9742.6	9709.5
25°	9377.0	9452.4	9430.3	9450.9	9416.4
27.5°	9101.9	9171.1	9125.4	9150.3	9113.7
30°	8795.1	8853.8	8818.6	8826.9	8782.7
32.5°	8450.2	8520.0	8477.1	8475.8	8428.8
35°	8113.0	8184.1	8133.7	8132.3	8081.9
37.5°	7739.7	7806.1	7746.7	7750.1	7691.4
40°	7358.9	7416.3	7358.9	7356.1	7302.3
42.5°	6945.6	7021.7	6969.2	6975.3	6903.5
45°	6555.2	6625.0	6573.2	6546.2	6506.1
47.5°	6166.2	6196.5	6153.7	6146.7	6090.1
50°	5754.2	5777.0	5744.5	5736.2	5672.7
52.5°	5328.5	5367.9	5326.4	5315.3	5273.2
55°	4912.4	4946.2	4913.1	4904.8	4868.8
57.5°	4493.6	4537.9	4504.0	4495.6	4466.7
60°	4074.9	4087.9	4079.7	4092.0	4063.8
62.5°	3658.8	3689.1	3698.9	3695.4	3673.3
65°	3246.1	3278.0	3278.6	3295.3	3286.9
67.5°	2823.9	2865.3	2877.2	2894.3	2901.9
70°	2426.4	2458.3	2492.9	2503.2	2495.6
72.5°	2026.3	2077.5	2116.2	2125.1	2157.6
75°	1622.7	1671.1	1727.8	1740.2	1754.7
77.5°	1248.2	1312.4	1363.5	1380.2	1398.2
80°	892.9	964.1	1015.2	1038.0	1072.6
82.5°	586.1	658.7	710.5	733.2	775.5
85°	311.0	376.0	427.8	465.8	483.8
87.5°	91.9	147.2	176.9	187.9	203.9
90°	0.0	6.9	8.3	18.6	17.3
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)