

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: P730928

Luminaire Tested: **HBLED-LD5-30SE-W-FLI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730928
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-L735
Description: 30000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28310.0 lumens
Efficiency: N/A
Efficacy: 149.0 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

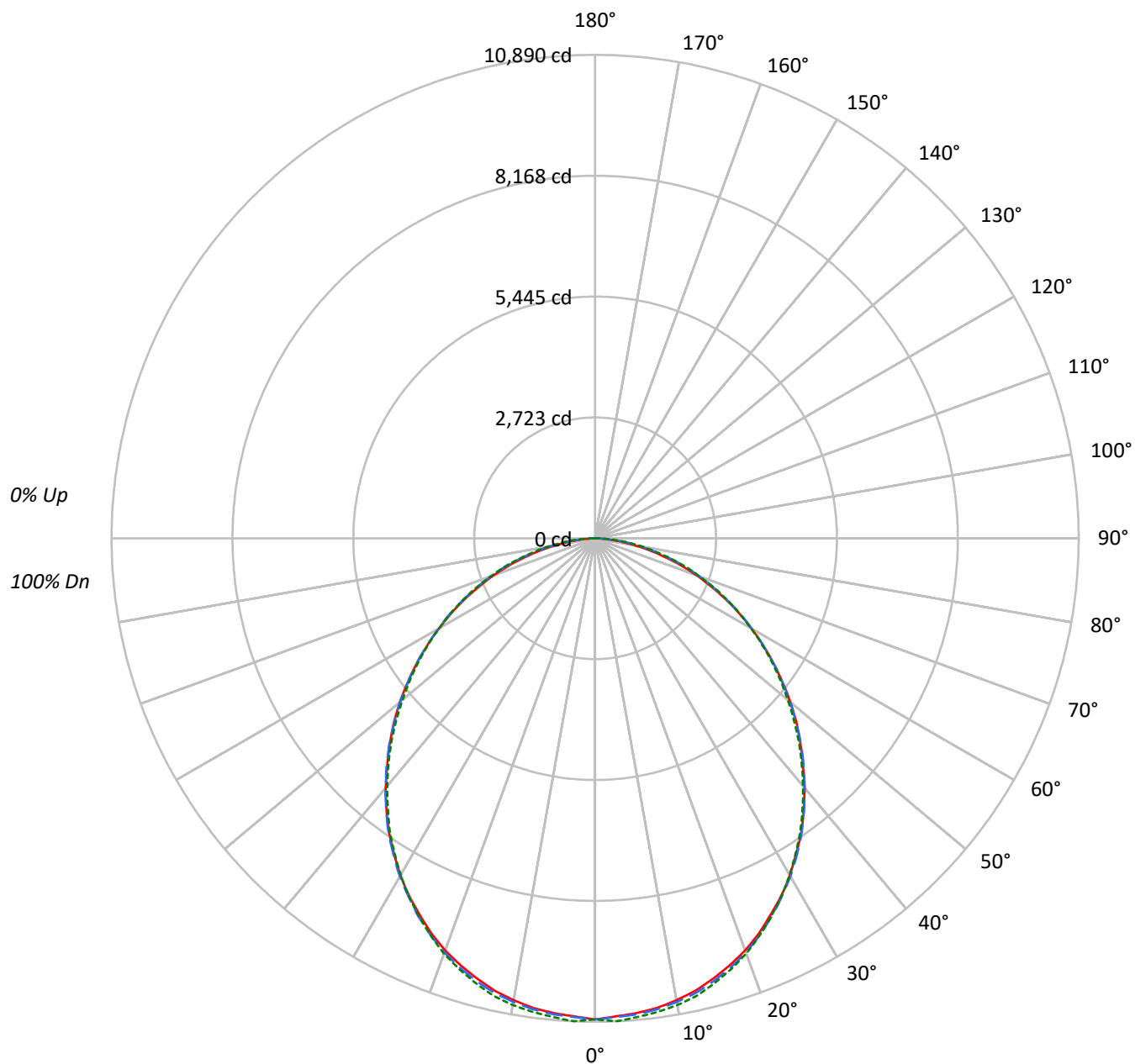
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17499	17499	17499
5°	17399	17448	17548
10°	17320	17390	17503
15°	17168	17261	17345
20°	16973	17055	17105
25°	16659	16754	16729
30°	16352	16396	16329
35°	15947	15988	15886
40°	15468	15468	15349
45°	14927	14968	14815
50°	14414	14390	14210
55°	13790	13792	13668
60°	13122	13138	13087
65°	12368	12491	12523
70°	11423	11736	11748
75°	10095	10749	10916
80°	8280	9413	9946
85°	5747	7903	8937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1025.0	3.6
10°-20°	2915.9	10.3
20°-30°	4333.2	15.3
30°-40°	5066.6	17.9
40°-50°	5051.6	17.8
50°-60°	4382.9	15.5
60°-70°	3237.3	11.4
70°-80°	1812.5	6.4
80°-90°	483.6	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°	8274.1	29.2
0°-40°	13340.7	47.1
0°-60°	22775.1	80.4
0°-90°	28308.5	100.0
90°-120°	1.5	0.0
90°-150°	1.5	0.0
90°-180°	1.0	0.0
0°-180°	28310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10838	10838	10838	10838	10838	
5°	10735	10803	10766	10813	10827	###
15°	10271	10342	10326	10376	10377	2897
25°	9351	9426	9404	9425	9390	4311
35°	8091	8162	8111	8110	8060	5054
45°	6537	6607	6555	6528	6488	5047
55°	4899	4933	4900	4891	4856	4381
65°	3237	3269	3270	3286	3278	3202
75°	1618	1666	1723	1735	1750	1723
85°	310	375	427	464	482	377
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	



TEST NUMBER: P730928

CATALOG NUMBER: HBLED-LD5-30SE-W-FLI-UNV-L735

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10837.9	10837.9	10837.9	10837.9	10837.9
2.5°	10778.6	10842.8	10797.9	10840.7	10890.3
5°	10735.2	10802.8	10765.5	10813.0	10826.8
7.5°	10671.8	10737.3	10701.4	10749.0	10763.5
10°	10564.2	10635.3	10607.0	10660.8	10675.9
12.5°	10438.8	10505.7	10487.1	10549.8	10560.1
15°	10270.7	10342.4	10326.5	10376.1	10376.8
17.5°	10084.6	10152.1	10140.4	10179.0	10177.6
20°	9878.6	9950.8	9926.1	9968.1	9954.9
22.5°	9634.6	9711.7	9680.6	9715.8	9682.8
25°	9351.2	9426.4	9404.4	9424.9	9390.5
27.5°	9076.9	9145.9	9100.3	9125.2	9088.6
30°	8770.9	8829.5	8794.4	8802.6	8758.5
32.5°	8427.0	8496.6	8453.8	8452.5	8405.6
35°	8090.7	8161.6	8111.4	8109.9	8059.7
37.5°	7718.5	7784.6	7725.4	7728.8	7670.3
40°	7338.7	7396.0	7338.7	7335.9	7282.3
42.5°	6926.6	7002.4	6950.1	6956.2	6884.6
45°	6537.2	6606.8	6555.2	6528.2	6488.2
47.5°	6149.2	6179.5	6136.7	6129.8	6073.4
50°	5738.4	5761.1	5728.7	5720.5	5657.1
52.5°	5313.9	5353.2	5311.7	5300.7	5258.7
55°	4898.9	4932.6	4899.6	4891.3	4855.5
57.5°	4481.3	4525.4	4491.6	4483.3	4454.5
60°	4063.7	4076.7	4068.4	4080.8	4052.6
62.5°	3648.7	3679.0	3688.7	3685.2	3663.2
65°	3237.2	3268.9	3269.6	3286.2	3277.8
67.5°	2816.1	2857.4	2869.3	2886.4	2894.0
70°	2419.8	2451.5	2486.0	2496.3	2488.7
72.5°	2020.7	2071.7	2110.4	2119.3	2151.7
75°	1618.3	1666.5	1723.1	1735.4	1749.9
77.5°	1244.7	1308.8	1359.8	1376.4	1394.3
80°	890.5	961.4	1012.4	1035.1	1069.7
82.5°	584.5	656.8	708.5	731.2	773.3
85°	310.2	375.0	426.6	464.5	482.4
87.5°	91.7	146.8	176.4	187.4	203.4
90°	0.0	6.9	8.2	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



TEST NUMBER: P730928

CATALOG NUMBER: HBLED-LD5-30SE-W-FLI-UNV-L735

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)