

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: P730929

Luminaire Tested: **HBLED-LD5-30SE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730929
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-L740
Description: 30000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29168.0 lumens
Efficiency: N/A
Efficacy: 153.5 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

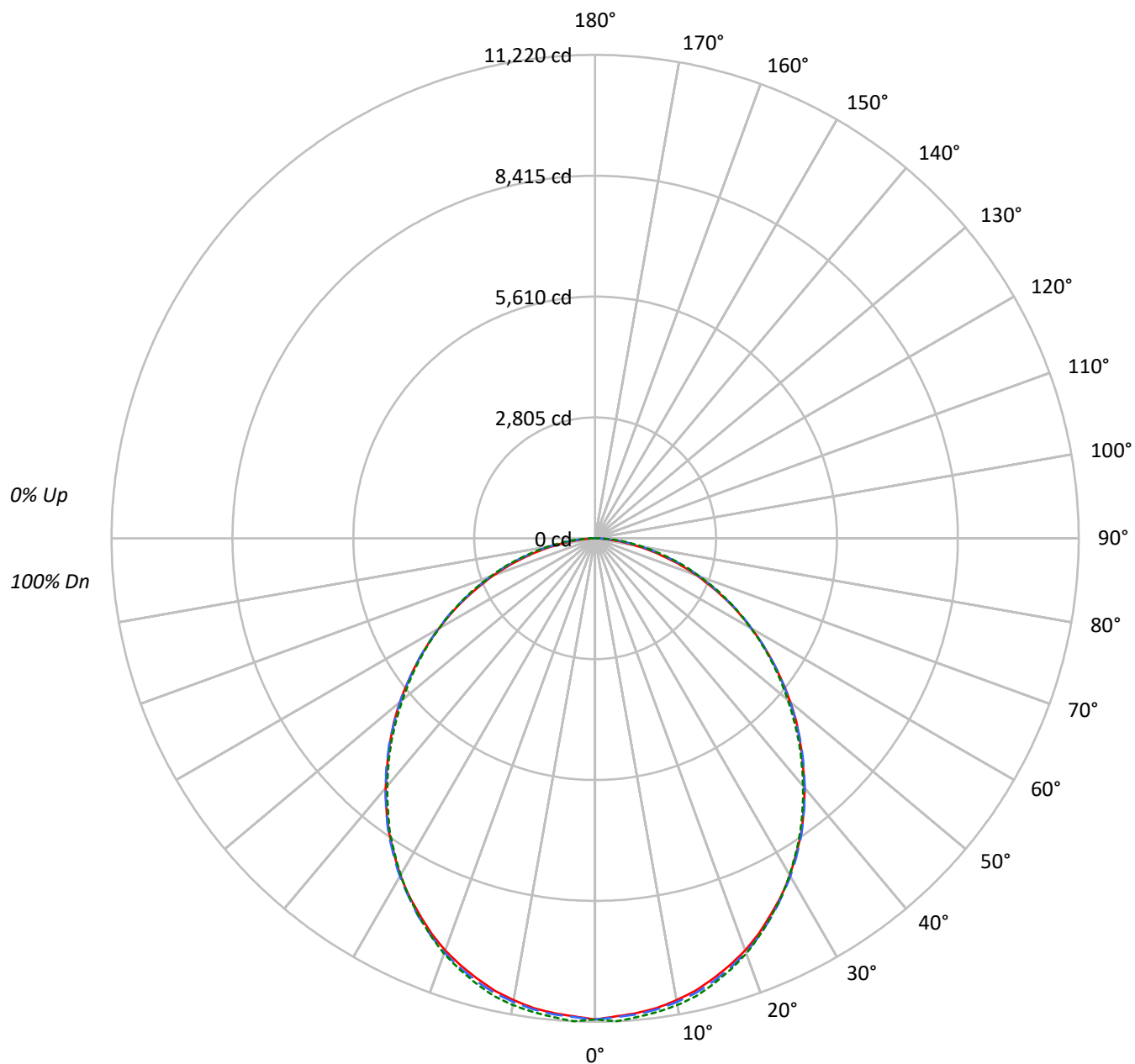
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18029	18029	18029
5°	17926	17977	18080
10°	17845	17917	18034
15°	17688	17784	17871
20°	17488	17572	17623
25°	17164	17262	17236
30°	16848	16893	16824
35°	16430	16472	16368
40°	15936	15936	15814
45°	15379	15421	15264
50°	14851	14826	14640
55°	14208	14210	14082
60°	13520	13536	13483
65°	12742	12870	12902
70°	11769	12092	12104
75°	10401	11075	11247
80°	8531	9699	10247
85°	5921	8144	9209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.1	3.6
10°-20°	3004.3	10.3
20°-30°	4464.5	15.3
30°-40°	5220.2	17.9
40°-50°	5204.7	17.8
50°-60°	4515.7	15.5
60°-70°	3335.4	11.4
70°-80°	1867.4	6.4
80°-90°	498.3	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°	8524.8	29.2
0°-40°	13745.0	47.1
0°-60°	23465.4	80.4
0°-90°	29166.5	100.0
90°-120°	1.5	0.0
90°-150°	1.5	0.0
90°-180°	1.0	0.0
0°-180°	29168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11166	11166	11166	11166	11166	
5°	11060	11130	11092	11141	11155	###
15°	10582	10656	10639	10691	10691	2984
25°	9635	9712	9689	9711	9675	4442
35°	8336	8409	8357	8356	8304	5207
45°	6735	6807	6754	6726	6685	5199
55°	5047	5082	5048	5040	5003	4513
65°	3335	3368	3369	3386	3377	3299
75°	1667	1717	1775	1788	1803	1776
85°	320	386	440	479	497	388
90°	0	7	8	19	18	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°	11166.3	11166.3	11166.3	11166.3	11166.3
2.5°	11105.3	11171.4	11125.1	11169.2	11220.4
5°	11060.5	11130.2	11091.7	11140.7	11155.0
7.5°	10995.3	11062.7	11025.8	11074.8	11089.7
10°	10884.4	10957.6	10928.5	10983.9	10999.5
12.5°	10755.2	10824.1	10804.9	10869.5	10880.2
15°	10582.0	10655.9	10639.4	10690.6	10691.3
17.5°	10390.2	10459.7	10447.7	10487.5	10486.0
20°	10178.0	10252.4	10227.0	10270.2	10256.6
22.5°	9926.6	10006.1	9974.0	10010.3	9976.2
25°	9634.6	9712.1	9689.4	9710.6	9675.1
27.5°	9352.0	9423.1	9376.1	9401.7	9364.1
30°	9036.7	9097.1	9060.9	9069.4	9024.0
32.5°	8682.4	8754.1	8710.0	8708.7	8660.4
35°	8335.9	8409.0	8357.2	8355.7	8304.0
37.5°	7952.4	8020.6	7959.5	7963.1	7902.7
40°	7561.1	7620.1	7561.1	7558.3	7503.0
42.5°	7136.5	7214.6	7160.7	7167.0	7093.2
45°	6735.4	6807.1	6753.8	6726.0	6684.9
47.5°	6335.6	6366.8	6322.7	6315.6	6257.5
50°	5912.3	5935.7	5902.3	5893.8	5828.5
52.5°	5474.9	5515.4	5472.7	5461.4	5418.1
55°	5047.4	5082.1	5048.1	5039.6	5002.6
57.5°	4617.1	4662.5	4627.8	4619.2	4589.5
60°	4186.8	4200.2	4191.8	4204.5	4175.5
62.5°	3759.3	3790.5	3800.5	3796.9	3774.2
65°	3335.3	3368.0	3368.7	3385.8	3377.2
67.5°	2901.5	2944.0	2956.2	2973.9	2981.7
70°	2493.1	2525.8	2561.4	2571.9	2564.1
72.5°	2082.0	2134.5	2174.4	2183.5	2216.9
75°	1667.3	1717.0	1775.3	1788.0	1802.9
77.5°	1282.5	1348.4	1401.0	1418.1	1436.6
80°	917.5	990.6	1043.1	1066.5	1102.1
82.5°	602.2	676.8	730.0	753.4	796.8
85°	319.6	386.3	439.6	478.6	497.1
87.5°	94.4	151.2	181.7	193.1	209.5
90°	0.0	7.1	8.5	19.2	17.8
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)