

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: P730931

Luminaire Tested: **HBLED-LD5-30SE-W-FLI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730931
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-L835
Description: 30000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27062.0 lumens
Efficiency: N/A
Efficacy: 142.4 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

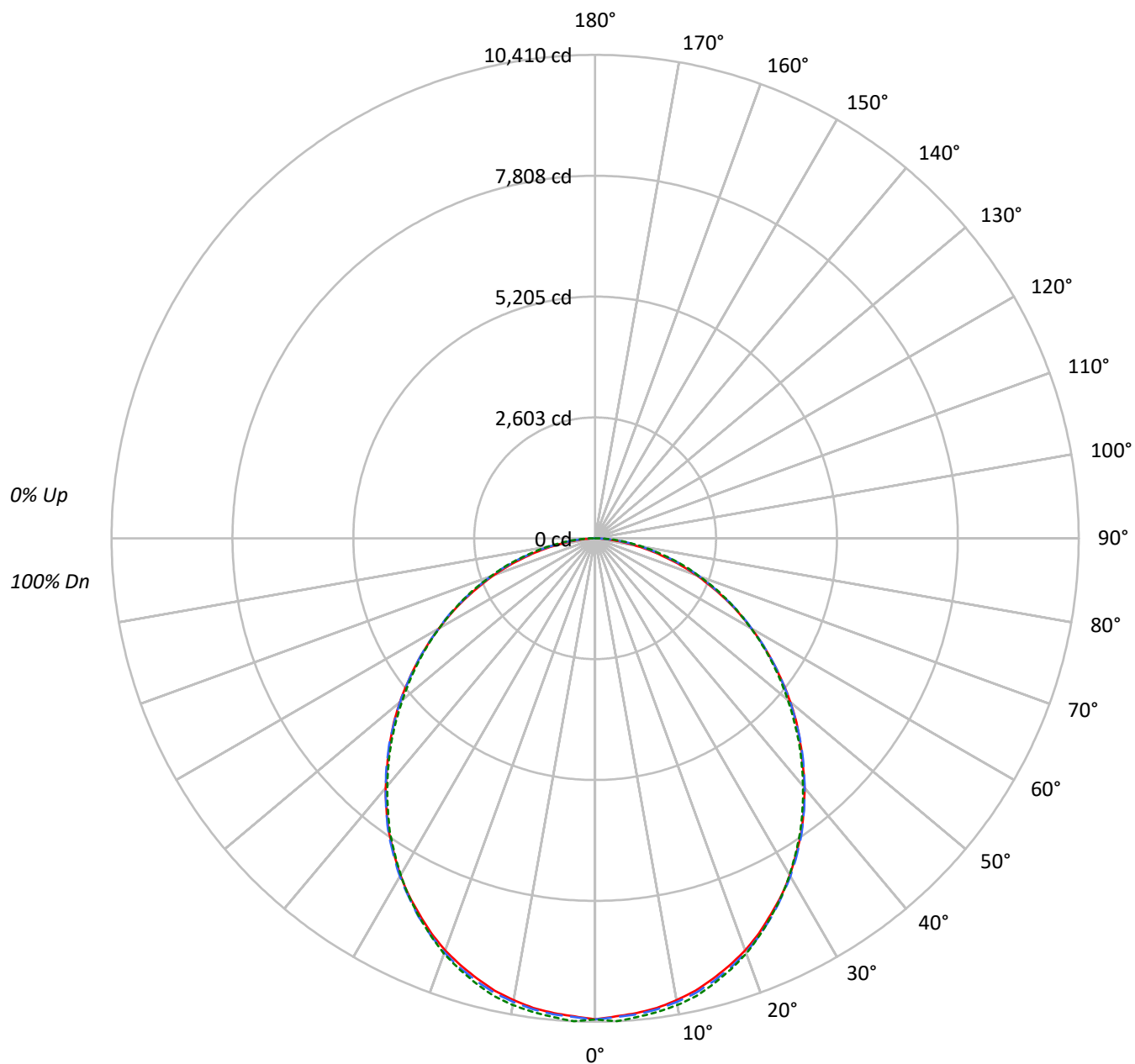
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16727	16727	16727
5°	16632	16679	16774
10°	16556	16623	16732
15°	16411	16500	16581
20°	16225	16303	16351
25°	15925	16015	15992
30°	15631	15673	15609
35°	15244	15283	15186
40°	14786	14786	14672
45°	14269	14308	14162
50°	13779	13755	13583
55°	13182	13184	13065
60°	12544	12559	12510
65°	11822	11941	11971
70°	10920	11219	11231
75°	9650	10275	10435
80°	7914	8999	9507
85°	5493	7555	8544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	979.8	3.6
10°-20°	2787.3	10.3
20°-30°	4142.2	15.3
30°-40°	4843.3	17.9
40°-50°	4828.9	17.8
50°-60°	4189.7	15.5
60°-70°	3094.6	11.4
70°-80°	1732.6	6.4
80°-90°	462.3	1.7
90°-100°	1.4	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°	7909.3	29.2
0°-40°	12752.6	47.1
0°-60°	21771.1	80.4
0°-90°	27060.6	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	27062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10360	10360	10360	10360	10360	
5°	10262	10327	10291	10336	10350	975
15°	9818	9886	9871	9919	9919	2769
25°	8939	9011	8990	9010	8977	4121
35°	7734	7802	7754	7752	7704	4831
45°	6249	6316	6266	6240	6202	4824
55°	4683	4715	4684	4676	4641	4188
65°	3094	3125	3126	3141	3133	3060
75°	1547	1593	1647	1659	1673	1647
85°	296	358	408	444	461	360
90°	0	7	8	18	16	12
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°	10360.1	10360.1	10360.1	10360.1	10360.1
2.5°	10303.5	10364.8	10321.9	10362.8	10410.2
5°	10261.9	10326.6	10290.9	10336.3	10349.6
7.5°	10201.4	10264.0	10229.7	10275.1	10289.0
10°	10098.5	10166.5	10139.4	10190.8	10205.3
12.5°	9978.7	10042.5	10024.8	10084.7	10094.6
15°	9817.9	9886.5	9871.2	9918.7	9919.4
17.5°	9640.0	9704.5	9693.4	9730.3	9728.9
20°	9443.1	9512.2	9488.5	9528.7	9516.1
22.5°	9209.8	9283.6	9253.9	9287.5	9255.9
25°	8939.0	9010.9	8989.8	9009.5	8976.6
27.5°	8676.8	8742.7	8699.1	8722.9	8688.0
30°	8384.2	8440.2	8406.7	8414.6	8372.4
32.5°	8055.5	8122.0	8081.2	8079.9	8035.1
35°	7734.0	7801.8	7753.8	7752.4	7704.4
37.5°	7378.2	7441.5	7384.8	7388.1	7332.1
40°	7015.2	7069.9	7015.2	7012.5	6961.2
42.5°	6621.2	6693.7	6643.7	6649.5	6581.1
45°	6249.0	6315.6	6266.2	6240.4	6202.2
47.5°	5878.2	5907.1	5866.2	5859.6	5805.6
50°	5485.4	5507.1	5476.2	5468.3	5407.7
52.5°	5079.6	5117.2	5077.6	5067.0	5026.9
55°	4682.9	4715.2	4683.6	4675.7	4641.4
57.5°	4283.7	4325.9	4293.6	4285.6	4258.1
60°	3884.5	3897.0	3889.1	3900.9	3874.0
62.5°	3487.9	3516.8	3526.1	3522.8	3501.7
65°	3094.5	3124.8	3125.5	3141.3	3133.3
67.5°	2692.0	2731.5	2742.8	2759.2	2766.4
70°	2313.1	2343.4	2376.5	2386.2	2379.0
72.5°	1931.7	1980.4	2017.4	2025.9	2056.9
75°	1546.9	1593.0	1647.1	1658.9	1672.8
77.5°	1189.9	1251.1	1299.8	1315.7	1332.8
80°	851.2	919.0	967.8	989.5	1022.5
82.5°	558.7	627.9	677.3	699.0	739.2
85°	296.5	358.4	407.8	444.0	461.2
87.5°	87.6	140.3	168.6	179.2	194.4
90°	0.0	6.6	7.9	17.8	16.5
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)