

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: P730641

Luminaire Tested: **HBLED-LD5-18SE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730641
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-LD5-18SE-W-FLI-UNV-L740
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17427.0 lumens
Efficiency: N/A
Efficacy: 151.8 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

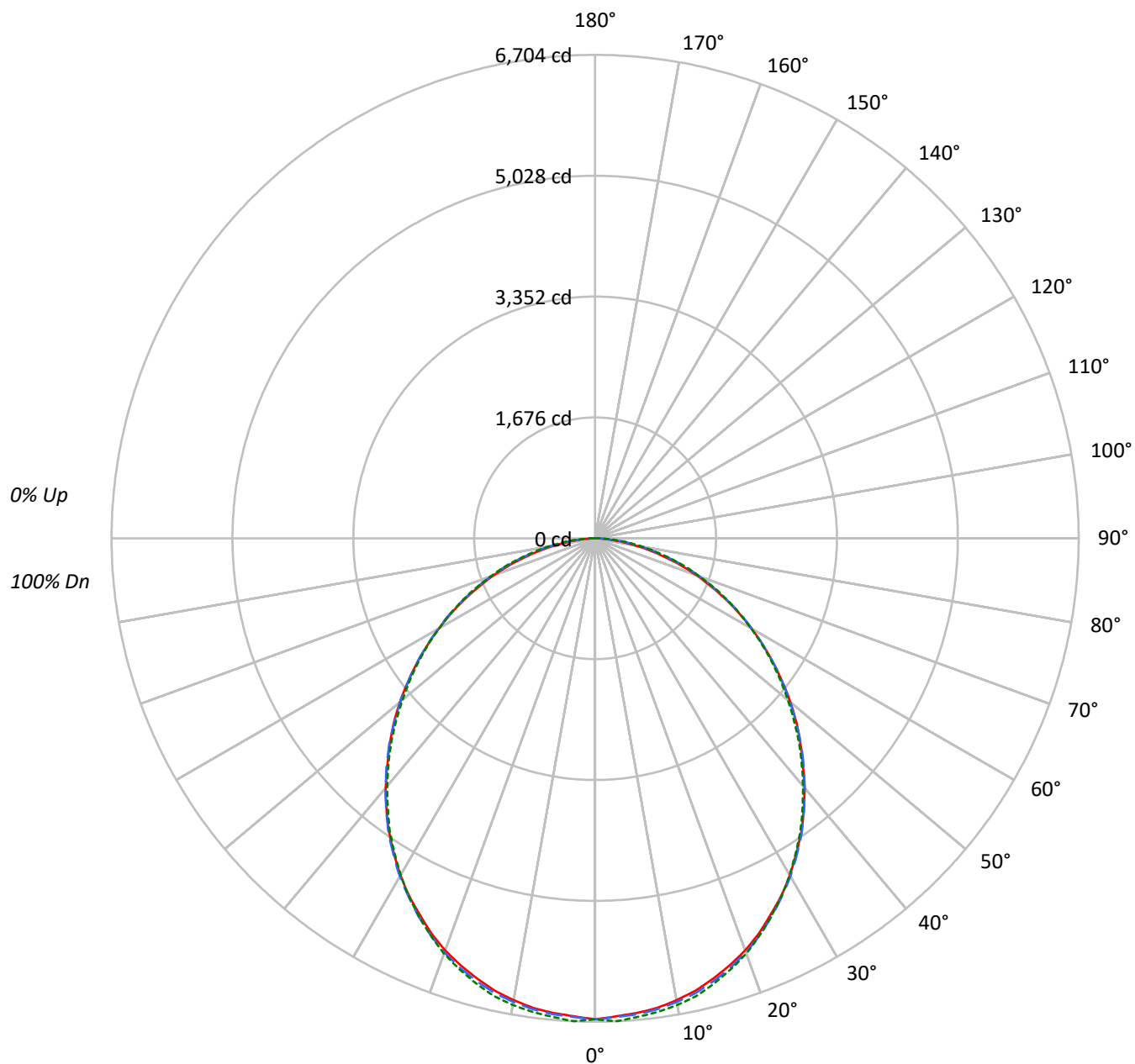
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10772	10772	10772
5°	10710	10741	10802
10°	10662	10705	10775
15°	10568	10626	10677
20°	10448	10499	10529
25°	10255	10313	10298
30°	10066	10093	10052
35°	9817	9842	9779
40°	9522	9522	9448
45°	9189	9214	9120
50°	8873	8858	8747
55°	8489	8490	8414
60°	8078	8087	8056
65°	7613	7689	7709
70°	7032	7225	7232
75°	6215	6617	6720
80°	5097	5795	6123
85°	3536	4865	5502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.0	3.6
10°-20°	1794.9	10.3
20°-30°	2667.4	15.3
30°-40°	3118.9	17.9
40°-50°	3109.6	17.8
50°-60°	2698.0	15.5
60°-70°	1992.8	11.4
70°-80°	1115.7	6.4
80°-90°	297.7	1.7
90°-100°	0.9	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°	5093.3	29.2
0°-40°	8212.2	47.1
0°-60°	14019.9	80.4
0°-90°	17426.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	17427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6672	6672	6672	6672	6672	
5°	6608	6650	6627	6656	6665	628
15°	6322	6367	6357	6387	6388	1783
25°	5756	5803	5789	5802	5781	2654
35°	4980	5024	4993	4992	4961	3111
45°	4024	4067	4035	4019	3994	3107
55°	3016	3036	3016	3011	2989	2697
65°	1993	2012	2013	2023	2018	1971
75°	996	1026	1061	1068	1077	1061
85°	191	231	263	286	297	232
90°	0	4	5	11	11	8
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°	6671.5	6671.5	6671.5	6671.5	6671.5
2.5°	6635.1	6674.6	6646.9	6673.3	6703.8
5°	6608.3	6650.0	6627.0	6656.3	6664.8
7.5°	6569.3	6609.6	6587.6	6616.8	6625.8
10°	6503.1	6546.8	6529.4	6562.5	6571.9
12.5°	6425.9	6467.0	6455.6	6494.2	6500.6
15°	6322.4	6366.6	6356.7	6387.3	6387.7
17.5°	6207.8	6249.4	6242.2	6266.0	6265.1
20°	6081.0	6125.5	6110.3	6136.1	6128.0
22.5°	5930.8	5978.3	5959.2	5980.9	5960.5
25°	5756.4	5802.7	5789.1	5801.8	5780.6
27.5°	5587.6	5630.0	5601.9	5617.2	5594.8
30°	5399.2	5435.2	5413.6	5418.7	5391.6
32.5°	5187.5	5230.3	5204.0	5203.2	5174.3
35°	4980.4	5024.1	4993.2	4992.3	4961.4
37.5°	4751.3	4792.0	4755.6	4757.7	4721.6
40°	4517.6	4552.8	4517.6	4515.8	4482.8
42.5°	4263.8	4310.5	4278.3	4282.1	4238.0
45°	4024.2	4067.0	4035.2	4018.6	3994.0
47.5°	3785.3	3804.0	3777.6	3773.4	3738.6
50°	3532.4	3546.4	3526.5	3521.4	3482.4
52.5°	3271.1	3295.3	3269.8	3263.0	3237.2
55°	3015.7	3036.4	3016.1	3011.0	2988.9
57.5°	2758.6	2785.7	2765.0	2759.8	2742.1
60°	2501.5	2509.5	2504.4	2512.1	2494.7
62.5°	2246.1	2264.7	2270.7	2268.5	2255.0
65°	1992.7	2012.3	2012.7	2022.9	2017.8
67.5°	1733.5	1759.0	1766.3	1776.8	1781.5
70°	1489.6	1509.1	1530.4	1536.6	1532.0
72.5°	1243.9	1275.3	1299.1	1304.6	1324.5
75°	996.2	1025.9	1060.7	1068.3	1077.2
77.5°	766.2	805.7	837.1	847.3	858.3
80°	548.2	591.8	623.2	637.2	658.5
82.5°	359.8	404.3	436.1	450.1	476.0
85°	190.9	230.8	262.6	285.9	297.0
87.5°	56.4	90.4	108.6	115.4	125.2
90°	0.0	4.3	5.1	11.4	10.6
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)