

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: P730642

Luminaire Tested: **HBLED-LD5-18SE-W-FLI-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730642
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-L750
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17846.0 lumens
Efficiency: N/A
Efficacy: 155.5 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

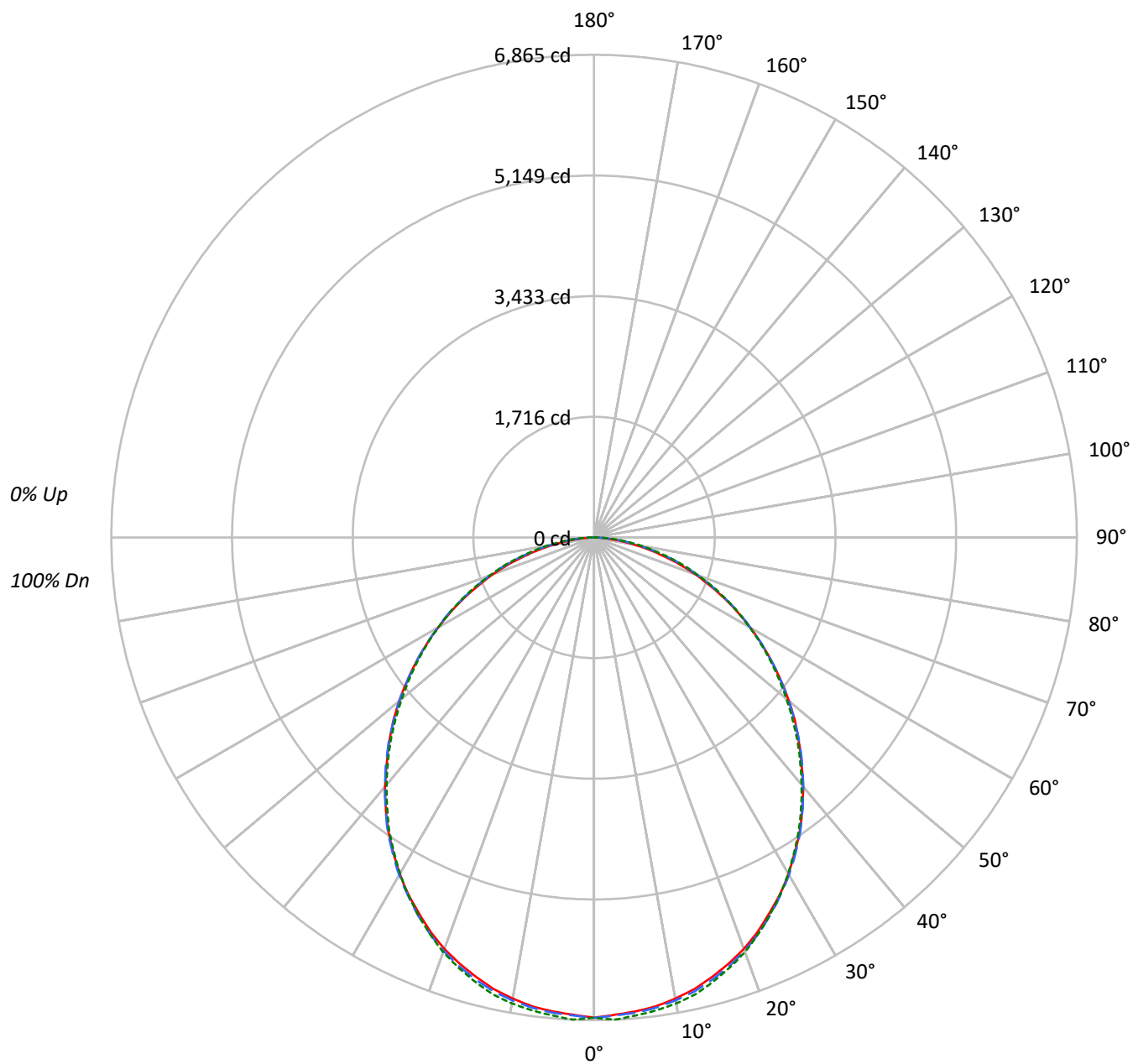
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11031	11031	11031
5°	10968	10999	11062
10°	10918	10962	11034
15°	10822	10881	10934
20°	10700	10751	10782
25°	10502	10561	10546
30°	10308	10336	10294
35°	10053	10078	10014
40°	9751	9751	9676
45°	9410	9435	9339
50°	9086	9071	8958
55°	8693	8694	8616
60°	8272	8282	8250
65°	7796	7874	7894
70°	7201	7398	7406
75°	6364	6776	6881
80°	5219	5934	6270
85°	3622	4983	5634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.1	3.6
10°-20°	1838.1	10.3
20°-30°	2731.6	15.3
30°-40°	3193.9	17.9
40°-50°	3184.4	17.8
50°-60°	2762.9	15.5
60°-70°	2040.7	11.4
70°-80°	1142.6	6.4
80°-90°	304.9	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°	5215.8	29.2
0°-40°	8409.7	47.1
0°-60°	14357.0	80.4
0°-90°	17845.1	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	17846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6832	6832	6832	6832	6832	
5°	6767	6810	6786	6816	6825	643
15°	6474	6520	6510	6541	6541	1826
25°	5895	5942	5928	5941	5920	2718
35°	5100	5145	5113	5112	5081	3186
45°	4121	4165	4132	4115	4090	3181
55°	3088	3109	3089	3083	3061	2761
65°	2041	2061	2061	2072	2066	2018
75°	1020	1050	1086	1094	1103	1086
85°	196	236	269	293	304	237
90°	0	4	5	12	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°	6831.9	6831.9	6831.9	6831.9	6831.9
2.5°	6794.6	6835.0	6806.7	6833.7	6865.0
5°	6767.2	6809.8	6786.3	6816.3	6825.0
7.5°	6727.3	6768.6	6746.0	6775.9	6785.1
10°	6659.5	6704.3	6686.4	6720.3	6729.9
12.5°	6580.4	6622.5	6610.8	6650.3	6656.9
15°	6474.4	6519.6	6509.6	6540.9	6541.3
17.5°	6357.1	6399.6	6392.3	6416.6	6415.7
20°	6227.2	6272.8	6257.2	6283.7	6275.4
22.5°	6073.4	6122.1	6102.5	6124.7	6103.8
25°	5894.8	5942.2	5928.3	5941.3	5919.6
27.5°	5721.9	5765.4	5736.6	5752.3	5729.3
30°	5529.0	5565.9	5543.8	5549.0	5521.2
32.5°	5312.2	5356.1	5329.1	5328.3	5298.7
35°	5100.2	5144.9	5113.2	5112.3	5080.7
37.5°	4865.6	4907.3	4869.9	4872.1	4835.2
40°	4626.2	4662.3	4626.2	4624.4	4590.6
42.5°	4366.3	4414.2	4381.2	4385.0	4339.9
45°	4120.9	4164.8	4132.2	4115.2	4090.0
47.5°	3876.3	3895.4	3868.5	3864.1	3828.5
50°	3617.4	3631.7	3611.2	3606.0	3566.1
52.5°	3349.7	3374.5	3348.4	3341.5	3315.0
55°	3088.2	3109.4	3088.6	3083.4	3060.8
57.5°	2824.9	2852.7	2831.4	2826.2	2808.0
60°	2561.6	2569.9	2564.7	2572.4	2554.7
62.5°	2300.1	2319.2	2325.3	2323.1	2309.2
65°	2040.7	2060.7	2061.1	2071.6	2066.3
67.5°	1775.2	1801.3	1808.7	1819.5	1824.3
70°	1525.4	1545.4	1567.1	1573.6	1568.8
72.5°	1273.8	1306.0	1330.4	1336.0	1356.4
75°	1020.1	1050.5	1086.2	1094.0	1103.1
77.5°	784.7	825.0	857.2	867.6	878.9
80°	561.3	606.1	638.2	652.5	674.3
82.5°	368.4	414.1	446.6	461.0	487.5
85°	195.5	236.4	269.0	292.8	304.1
87.5°	57.8	92.5	111.2	118.1	128.2
90°	0.0	4.4	5.2	11.7	10.9
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)