

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: P730623

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23762)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CL-UNV-L740
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
& DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17702.0 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

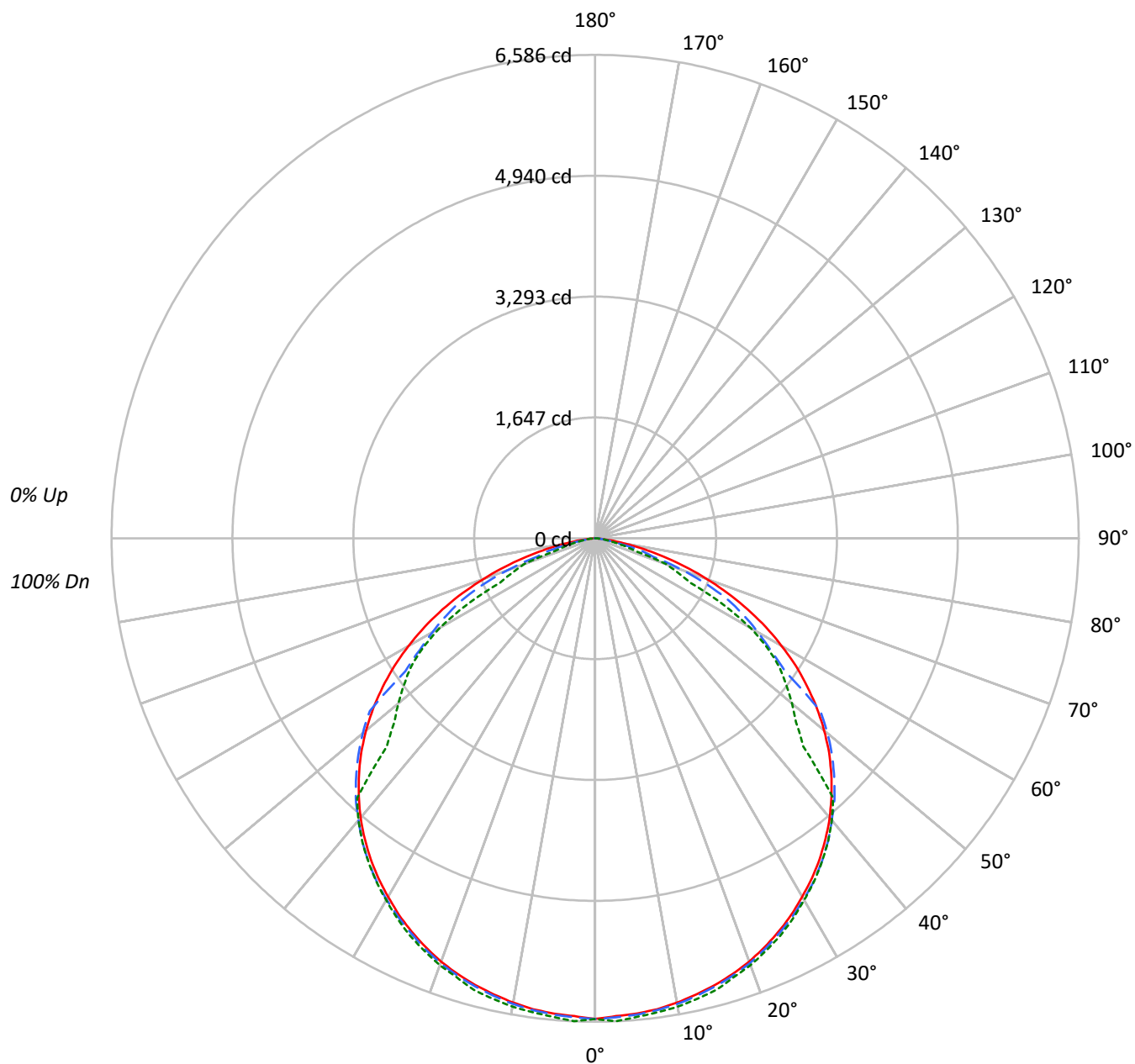
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53		
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40		
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10572	10572	10572
5°	10534	10557	10609
10°	10533	10563	10624
15°	10532	10564	10649
20°	10545	10585	10634
25°	10533	10573	10637
30°	10513	10591	10614
35°	10508	10604	10612
40°	10475	10568	10568
45°	10386	10511	9159
50°	10225	10379	8787
55°	9935	8885	8631
60°	9469	8259	7886
65°	8757	7666	5461
70°	7625	5966	4866
75°	6023	4004	2616
80°	3876	1913	1631
85°	1595	1167	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.1	3.5
10°-20°	1790.3	10.1
20°-30°	2744.8	15.5
30°-40°	3364.2	19.0
40°-50°	3458.6	19.5
50°-60°	2951.8	16.7
60°-70°	1951.5	11.0
70°-80°	723.0	4.1
80°-90°	96.7	0.5
90°-100°	0.0	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°	5156.2	29.1
0°-40°	8520.4	48.1
0°-60°	14930.8	84.3
0°-90°	17702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6548	6548	6548	6548	6548	
5°	6499	6545	6514	6539	6546	618
15°	6301	6339	6320	6368	6371	1780
25°	5912	5944	5935	5988	5971	2726
35°	5331	5368	5380	5413	5384	3335
45°	4548	4594	4603	4596	4011	3505
55°	3529	3594	3156	3065	3066	3149
65°	2292	2311	2007	1650	1430	2260
75°	966	846	642	431	419	1036
85°	86	61	63	68	69	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6547.9	6547.9	6547.9	6547.9	6547.9
2.5°	6516.0	6556.7	6532.7	6563.0	6586.1
5°	6499.3	6544.7	6513.6	6539.1	6545.5
7.5°	6470.6	6512.8	6484.1	6517.6	6512.8
10°	6424.4	6462.6	6442.7	6477.8	6480.1
12.5°	6365.3	6403.6	6385.3	6428.3	6427.5
15°	6300.7	6339.0	6319.8	6367.7	6370.9
17.5°	6225.0	6260.1	6245.7	6289.6	6272.0
20°	6137.3	6167.6	6160.4	6201.9	6189.1
22.5°	6029.6	6060.8	6053.6	6101.5	6082.3
25°	5912.5	5943.6	5934.8	5988.2	5970.7
27.5°	5785.7	5815.2	5814.4	5864.7	5837.6
30°	5639.0	5678.1	5680.5	5725.1	5693.2
32.5°	5494.0	5530.6	5541.0	5573.7	5546.6
35°	5331.3	5367.9	5379.9	5413.4	5383.9
37.5°	5155.9	5187.0	5208.5	5233.2	5210.1
40°	4970.1	4998.0	5014.0	5044.2	5014.0
42.5°	4762.8	4802.7	4825.0	4846.6	4797.1
45°	4548.4	4593.8	4603.4	4596.2	4011.0
47.5°	4321.2	4370.6	4376.2	3816.5	3708.9
50°	4070.8	4133.0	4132.2	3527.0	3498.4
52.5°	3810.1	3869.9	3867.5	3300.7	3281.5
55°	3529.4	3594.1	3156.3	3064.7	3066.3
57.5°	3243.2	3289.5	2831.9	2835.8	2783.2
60°	2932.3	2976.2	2557.6	2532.9	2442.0
62.5°	2620.6	2638.9	2292.1	2171.7	1998.7
65°	2292.1	2311.2	2006.7	1650.3	1429.5
67.5°	1954.9	1974.0	1665.4	1227.8	1211.0
70°	1615.2	1459.0	1263.7	1022.9	1030.8
72.5°	1280.4	1121.0	826.0	792.5	572.4
75°	965.5	845.9	641.8	431.3	419.3
77.5°	672.1	582.8	343.6	294.2	275.1
80°	416.9	292.6	205.7	182.6	175.4
82.5°	211.3	168.2	111.6	111.6	111.6
85°	86.1	61.4	63.0	68.5	69.3
87.5°	18.3	24.7	30.3	31.1	30.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)