

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: P730621

Luminaire Tested: **HBLED-LD5-18SE-W-AI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23765)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-AI-UNV-L850
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16846.0 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

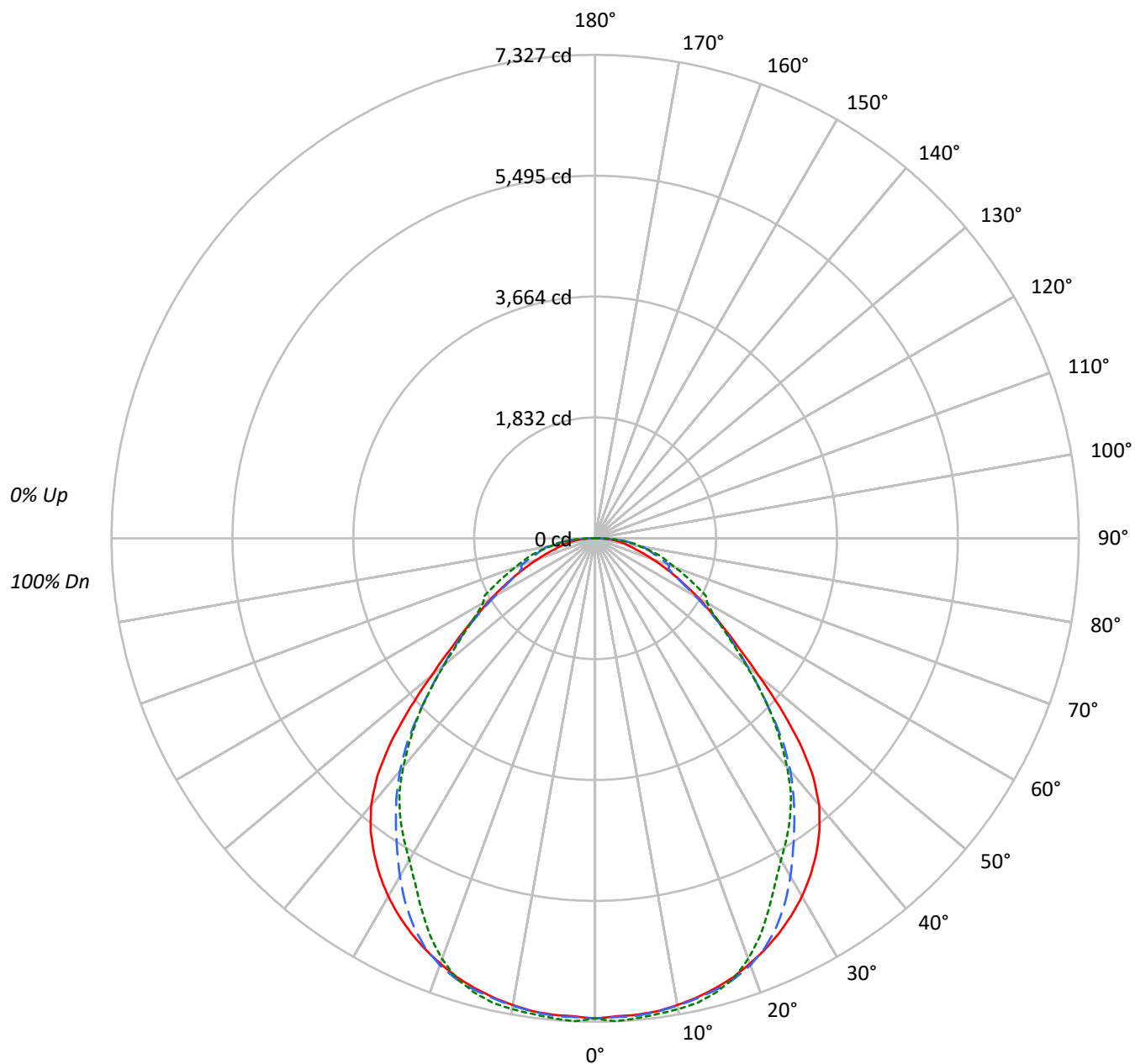
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63		
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48		
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34		
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11751	11751	11751
5°	11750	11776	11833
10°	11779	11794	11881
15°	11798	11842	11900
20°	11786	11830	11654
25°	11756	11580	11076
30°	11687	11033	10496
35°	11511	10370	10154
40°	11126	9696	9536
45°	10000	8658	8626
50°	8111	7542	7490
55°	6735	6609	6607
60°	5831	5661	6329
65°	5054	5022	6379
70°	4357	5633	6081
75°	3908	5774	6339
80°	4061	6797	6360
85°	4611	7833	7267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.0	4.1
10°-20°	2001.3	11.9
20°-30°	2972.4	17.6
30°-40°	3374.5	20.0
40°-50°	3016.7	17.9
50°-60°	2085.7	12.4
60°-70°	1376.3	8.2
70°-80°	928.5	5.5
80°-90°	397.7	2.4
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°	5666.7	33.6
0°-40°	9041.1	53.7
0°-60°	14143.5	84.0
0°-90°	16846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7278	7278	7278	7278	7278	
5°	7250	7294	7266	7295	7301	690
15°	7058	7092	7084	7124	7119	1992
25°	6599	6662	6500	6306	6217	3041
35°	5840	5717	5261	5185	5152	3642
45°	4380	4009	3792	3821	3778	3331
55°	2392	2184	2348	2315	2347	2173
65°	1323	1174	1314	1537	1670	1320
75°	626	788	926	989	1016	684
85°	249	346	423	425	392	260
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7278.0	7278.0	7278.0	7278.0	7278.0
2.5°	7253.3	7298.6	7264.8	7296.1	7326.6
5°	7249.9	7294.5	7265.6	7295.3	7301.1
7.5°	7229.4	7270.5	7236.7	7265.6	7272.2
10°	7184.8	7233.5	7193.9	7238.4	7246.7
12.5°	7127.2	7176.6	7142.0	7203.0	7206.3
15°	7057.9	7091.7	7084.3	7123.8	7118.9
17.5°	6970.6	7009.4	7003.6	7013.4	6990.4
20°	6859.3	6903.0	6884.8	6839.5	6782.7
22.5°	6739.8	6792.5	6720.9	6606.3	6526.4
25°	6598.9	6661.5	6500.0	6306.4	6217.3
27.5°	6443.1	6499.2	6230.5	5993.2	5900.9
30°	6268.4	6292.3	5918.1	5692.3	5629.7
32.5°	6066.5	6031.9	5584.3	5435.2	5398.9
35°	5839.9	5717.0	5261.3	5184.7	5151.7
37.5°	5584.3	5359.4	4942.4	4906.9	4872.3
40°	5278.6	4946.5	4600.4	4577.3	4524.5
42.5°	4883.9	4497.3	4220.4	4193.2	4146.2
45°	4379.5	4008.6	3791.9	3820.7	3777.9
47.5°	3799.3	3518.3	3380.6	3459.8	3380.6
50°	3228.9	3040.3	3002.4	3074.1	2981.8
52.5°	2761.7	2591.9	2670.3	2682.6	2627.4
55°	2392.5	2184.0	2348.0	2315.0	2347.1
57.5°	2071.1	1837.8	2039.8	2001.8	2112.3
60°	1805.7	1543.6	1753.0	1744.7	1959.8
62.5°	1545.3	1336.0	1504.0	1625.2	1889.7
65°	1322.8	1174.4	1314.5	1537.0	1669.7
67.5°	1109.3	1053.2	1202.4	1326.0	1471.1
70°	923.0	951.9	1193.3	1170.3	1288.1
72.5°	766.4	864.6	1053.2	1057.4	1140.6
75°	626.4	787.9	925.5	989.0	1016.2
77.5°	520.9	714.5	835.7	858.0	831.6
80°	436.8	629.6	731.0	721.1	684.0
82.5°	352.7	477.2	576.1	585.2	541.4
85°	248.9	346.2	422.8	425.3	392.3
87.5°	133.5	213.5	256.3	263.7	243.9
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)