

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: P730616

Luminaire Tested: **HBLED-LD5-18SE-W-AI-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730616
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-L735
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: 16800.0 lumens
Efficiency: N/A
Efficacy: 146.3 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

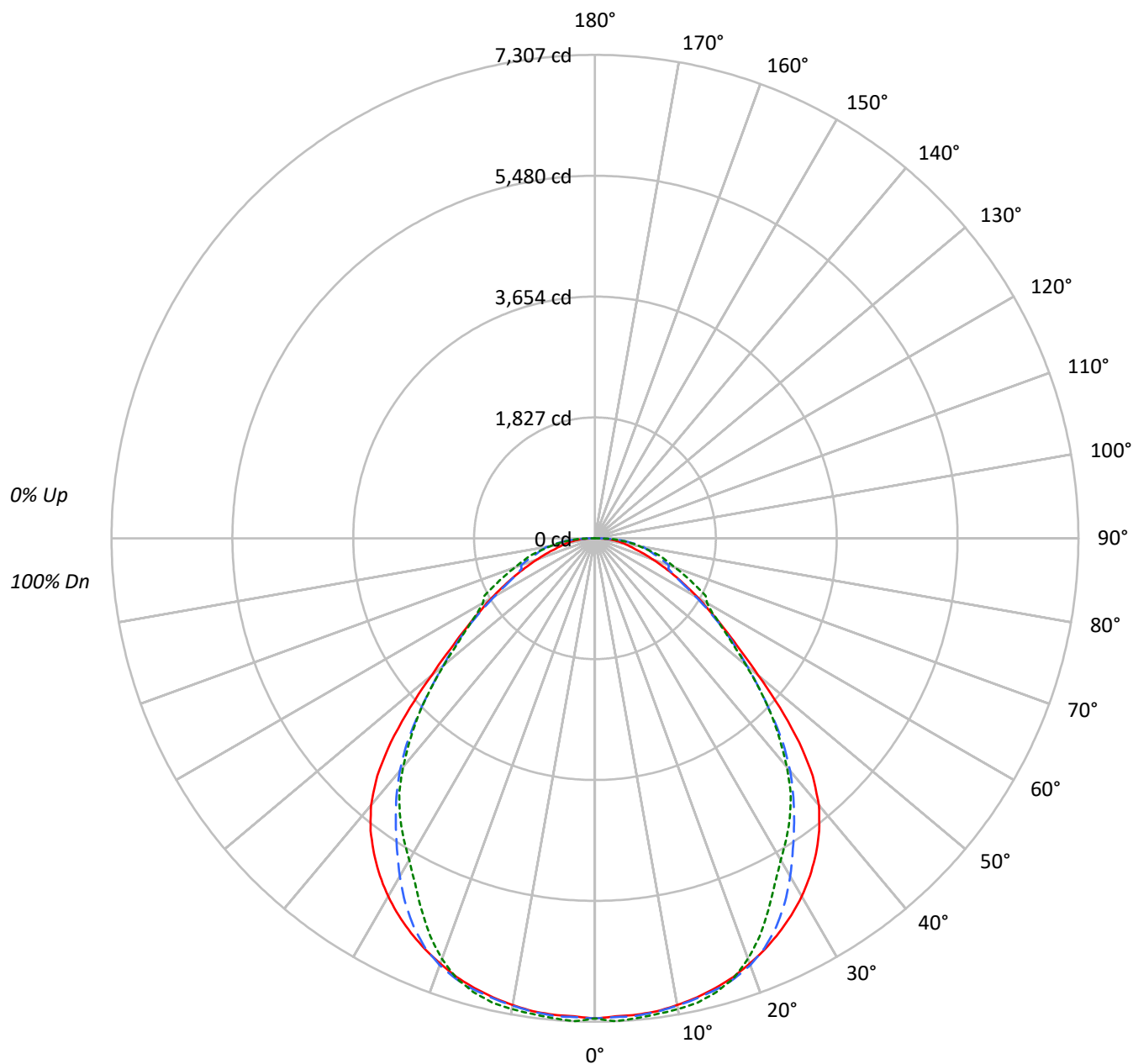
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75
3	92	82	75	69	90	81	74	68		78	72	67		75	70	66		73	68	65
4	85	74	66	59	83	73	65	59		70	64	58		68	62	57		66	61	57
5	79	67	58	52	77	66	58	52		64	57	51		62	55	51		60	54	50
6	73	61	52	46	71	60	52	46		58	51	45		56	50	45		55	49	45
7	68	55	47	41	66	54	47	41		53	46	41		52	45	40		50	44	40
8	64	51	43	37	62	50	42	37		49	42	37		48	41	36		46	41	36
9	60	47	39	34	58	46	39	33		45	38	33		44	38	33		43	37	33
10	56	43	36	31	55	43	35	31		42	35	30		41	35	30		40	34	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11719	11719	11719
5°	11718	11744	11801
10°	11747	11762	11848
15°	11765	11809	11867
20°	11754	11797	11622
25°	11724	11548	11046
30°	11655	11003	10467
35°	11479	10342	10126
40°	11095	9670	9510
45°	9973	8635	8603
50°	8088	7521	7469
55°	6716	6591	6589
60°	5815	5645	6311
65°	5040	5008	6362
70°	4345	5618	6064
75°	3896	5758	6322
80°	4050	6778	6342
85°	4598	7812	7247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.1	4.1
10°-20°	1995.9	11.9
20°-30°	2964.3	17.6
30°-40°	3365.3	20.0
40°-50°	3008.4	17.9
50°-60°	2080.0	12.4
60°-70°	1372.5	8.2
70°-80°	926.0	5.5
80°-90°	396.6	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°	5651.2	33.6
0°-40°	9016.5	53.7
0°-60°	14104.9	84.0
0°-90°	16800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7258	7258	7258	7258	7258	
5°	7230	7275	7246	7275	7281	688
15°	7039	7072	7065	7104	7100	1987
25°	6581	6643	6482	6289	6200	3032
35°	5824	5701	5247	5170	5138	3632
45°	4368	3998	3782	3810	3768	3321
55°	2386	2178	2342	2309	2341	2167
65°	1319	1171	1311	1533	1665	1316
75°	625	786	923	986	1013	682
85°	248	345	422	424	391	259
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7258.1	7258.1	7258.1	7258.1	7258.1
2.5°	7233.5	7278.7	7245.0	7276.2	7306.6
5°	7230.1	7274.6	7245.8	7275.3	7281.1
7.5°	7209.6	7250.7	7217.0	7245.8	7252.4
10°	7165.2	7213.7	7174.3	7218.7	7226.9
12.5°	7107.7	7157.0	7122.5	7183.3	7186.6
15°	7038.7	7072.4	7065.0	7104.4	7099.5
17.5°	6951.5	6990.2	6984.4	6994.3	6971.3
20°	6840.6	6884.1	6866.0	6820.9	6764.2
22.5°	6721.4	6774.0	6702.6	6588.3	6508.5
25°	6580.8	6643.3	6482.3	6289.1	6200.3
27.5°	6425.5	6481.4	6213.5	5976.8	5884.8
30°	6251.3	6275.1	5902.0	5676.8	5614.3
32.5°	6049.9	6015.4	5569.1	5420.4	5384.2
35°	5823.9	5701.4	5246.9	5170.5	5137.6
37.5°	5569.1	5344.8	4928.9	4893.5	4859.0
40°	5264.2	4933.0	4587.8	4564.8	4512.2
42.5°	4870.6	4485.0	4208.9	4181.8	4134.9
45°	4367.5	3997.6	3781.5	3810.3	3767.5
47.5°	3788.9	3508.7	3371.4	3450.3	3371.4
50°	3220.1	3032.0	2994.2	3065.7	2973.6
52.5°	2754.1	2584.9	2663.0	2675.2	2620.2
55°	2385.9	2178.0	2341.6	2308.7	2340.7
57.5°	2065.4	1832.8	2034.2	1996.4	2106.5
60°	1800.8	1539.4	1748.2	1739.9	1954.4
62.5°	1541.1	1332.3	1499.9	1620.8	1884.6
65°	1319.1	1171.2	1310.9	1532.8	1665.2
67.5°	1106.3	1050.4	1199.1	1322.4	1467.1
70°	920.5	949.3	1190.1	1167.1	1284.6
72.5°	764.4	862.2	1050.4	1054.5	1137.5
75°	624.6	785.8	923.0	986.3	1013.4
77.5°	519.4	712.6	833.4	855.6	829.3
80°	435.6	627.9	729.0	719.2	682.1
82.5°	351.7	475.9	574.5	583.6	540.0
85°	248.2	345.2	421.7	424.1	391.2
87.5°	133.1	212.9	255.6	263.0	243.3
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)