

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: P730619

Luminaire Tested: **HBLED-LD5-18SE-W-AI-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730619
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-L835
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: 16060.0 lumens
Efficiency: N/A
Efficacy: 139.9 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

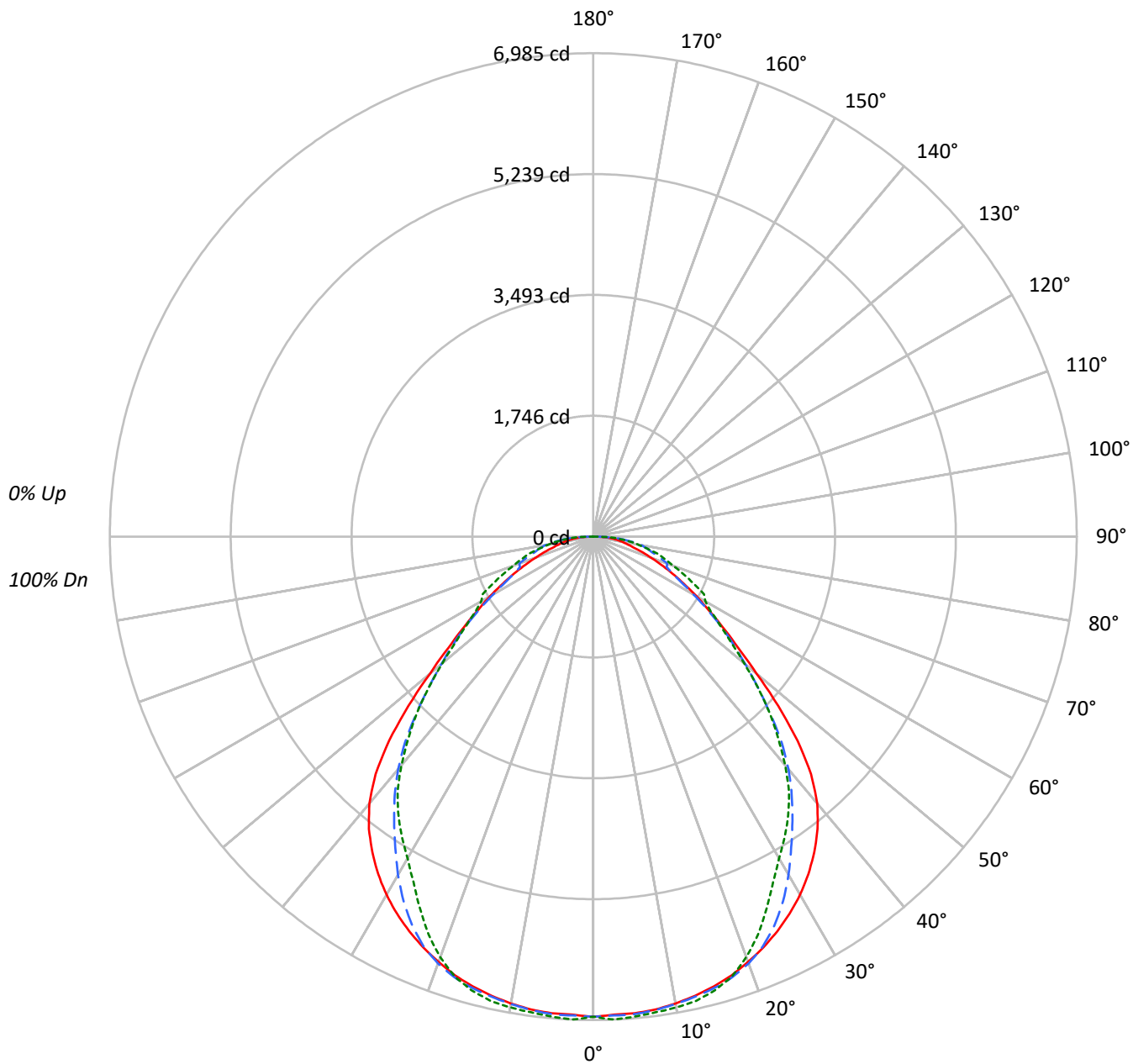
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11203	11203	11203
5°	11202	11226	11281
10°	11230	11244	11327
15°	11247	11289	11344
20°	11236	11278	11110
25°	11207	11040	10559
30°	11141	10519	10006
35°	10974	9886	9680
40°	10607	9244	9091
45°	9534	8254	8224
50°	7732	7190	7140
55°	6420	6301	6299
60°	5559	5397	6033
65°	4818	4788	6081
70°	4154	5370	5797
75°	3725	5505	6044
80°	3872	6480	6063
85°	4394	7468	6928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.6	4.1
10°-20°	1907.9	11.9
20°-30°	2833.7	17.6
30°-40°	3217.0	20.0
40°-50°	2875.9	17.9
50°-60°	1988.4	12.4
60°-70°	1312.1	8.2
70°-80°	885.2	5.5
80°-90°	379.1	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°	5402.3	33.6
0°-40°	8619.3	53.7
0°-60°	13483.6	84.0
0°-90°	16060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6938	6938	6938	6938	6938	
5°	6912	6954	6927	6955	6960	658
15°	6729	6761	6754	6792	6787	1899
25°	6291	6351	6197	6012	5927	2899
35°	5567	5450	5016	4943	4911	3472
45°	4175	3822	3615	3642	3602	3175
55°	2281	2082	2238	2207	2238	2072
65°	1261	1120	1253	1465	1592	1258
75°	597	751	882	943	969	652
85°	237	330	403	405	374	247
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6938.4	6938.4	6938.4	6938.4	6938.4
2.5°	6914.9	6958.1	6925.9	6955.7	6984.7
5°	6911.7	6954.1	6926.6	6954.9	6960.4
7.5°	6892.0	6931.3	6899.1	6926.6	6932.9
10°	6849.6	6896.0	6858.2	6900.7	6908.6
12.5°	6794.6	6841.8	6808.7	6866.9	6870.1
15°	6728.6	6760.8	6753.8	6791.5	6786.8
17.5°	6645.3	6682.3	6676.8	6686.2	6664.2
20°	6539.3	6580.9	6563.6	6520.4	6466.2
22.5°	6425.4	6475.6	6407.3	6298.1	6221.8
25°	6291.0	6350.7	6196.8	6012.1	5927.2
27.5°	6142.5	6195.9	5939.8	5713.5	5625.5
30°	5976.0	5998.7	5642.0	5426.7	5367.0
32.5°	5783.4	5750.5	5323.8	5181.6	5147.0
35°	5567.4	5450.3	5015.8	4942.8	4911.3
37.5°	5323.8	5109.4	4711.8	4678.0	4645.0
40°	5032.4	4715.7	4385.7	4363.7	4313.4
42.5°	4656.0	4287.5	4023.5	3997.6	3952.8
45°	4175.2	3821.6	3614.9	3642.5	3601.6
47.5°	3622.0	3354.1	3222.9	3298.3	3222.9
50°	3078.3	2898.4	2862.3	2930.6	2842.6
52.5°	2632.8	2471.0	2545.7	2557.4	2504.8
55°	2280.8	2082.1	2238.5	2207.0	2237.6
57.5°	1974.5	1752.1	1944.6	1908.4	2013.7
60°	1721.4	1471.6	1671.2	1663.3	1868.3
62.5°	1473.2	1273.6	1433.9	1549.4	1801.6
65°	1261.0	1119.6	1253.2	1465.3	1591.8
67.5°	1057.5	1004.1	1146.3	1264.2	1402.5
70°	879.9	907.4	1137.6	1115.7	1228.0
72.5°	730.7	824.2	1004.1	1008.0	1087.4
75°	597.1	751.2	882.4	942.8	968.8
77.5°	496.5	681.2	796.7	817.9	792.8
80°	416.4	600.2	696.9	687.5	652.1
82.5°	336.2	454.9	549.2	557.9	516.2
85°	237.2	330.0	403.1	405.4	374.0
87.5°	127.3	203.5	244.4	251.4	232.5
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)