

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: P730634

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CLI-UNV-L735
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17695.0 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

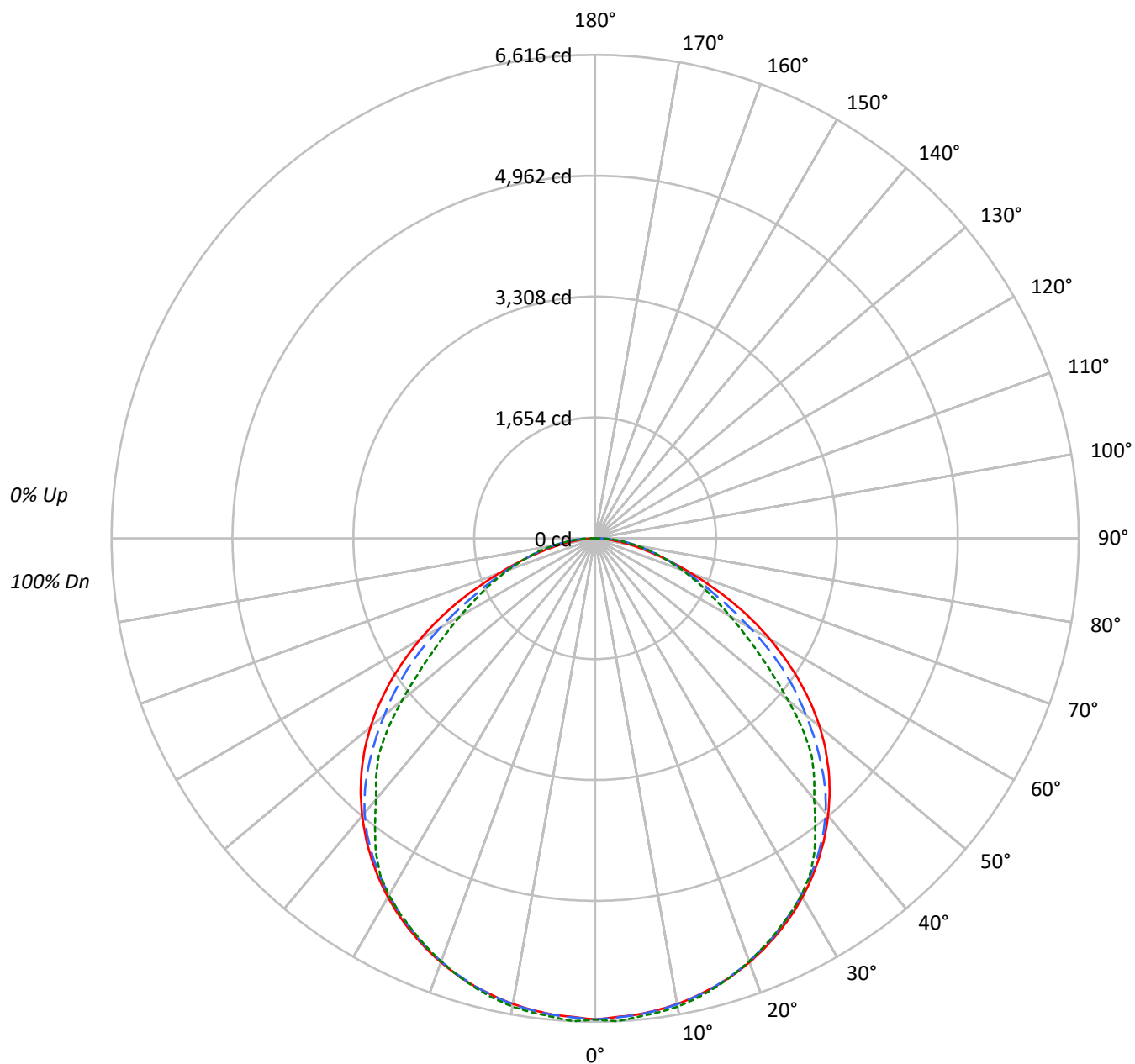
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730634

CATALOG NUMBER: HBLED-LD5-18SE-W-CLI-UNV-L735

Luminous Intensity Polar Plot





TEST NUMBER: P730634

CATALOG NUMBER: HBLED-LD5-18SE-W-CLI-UNV-L735

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	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10634	10634	10634
5°	10605	10613	10661
10°	10611	10617	10672
15°	10613	10611	10636
20°	10610	10586	10588
25°	10594	10554	10542
30°	10577	10513	10519
35°	10527	10462	10314
40°	10452	10345	9824
45°	10319	9989	9552
50°	10071	9457	8651
55°	9612	8845	7650
60°	8921	7892	6898
65°	7929	6833	6343
70°	6580	6106	5979
75°	5322	5588	5658
80°	4228	5345	5323
85°	3310	5743	5478



TEST NUMBER: P730634

CATALOG NUMBER: HBLED-LD5-18SE-W-CLI-UNV-L735

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.6	3.5
10°-20°	1796.6	10.2
20°-30°	2739.5	15.5
30°-40°	3314.4	18.7
40°-50°	3357.2	19.0
50°-60°	2774.8	15.7
60°-70°	1832.7	10.4
70°-80°	955.6	5.4
80°-90°	299.6	1.7
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°	5160.7	29.2
0°-40°	8475.1	47.9
0°-60°	14607.1	82.5
0°-90°	17695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6586	6586	6586	6586	6586	
5°	6544	6583	6548	6577	6578	622
15°	6349	6381	6348	6368	6363	1793
25°	5947	5970	5924	5939	5917	2742
35°	5341	5348	5308	5301	5233	3341
45°	4519	4508	4375	4239	4183	3480
55°	3415	3364	3142	2837	2718	3044
65°	2076	2015	1788	1672	1660	2050
75°	853	868	896	908	907	929
85°	179	230	310	308	296	217
90°	0	0	0	0	0	



TEST NUMBER: P730634

CATALOG NUMBER: HBLED-LD5-18SE-W-CLI-UNV-L735

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6586.1	6586.1	6586.1	6586.1	6586.1
2.5°	6558.5	6597.2	6564.8	6593.3	6616.2
5°	6543.5	6583.0	6548.2	6576.7	6577.5
7.5°	6514.3	6553.8	6518.2	6546.6	6545.8
10°	6472.3	6509.5	6475.5	6509.5	6509.5
12.5°	6415.4	6451.8	6418.6	6450.2	6445.4
15°	6349.0	6381.4	6348.2	6368.0	6363.2
17.5°	6270.7	6300.0	6262.8	6279.4	6269.9
20°	6175.0	6201.9	6160.8	6182.2	6162.3
22.5°	6067.5	6092.8	6050.9	6066.8	6044.5
25°	5946.6	5970.3	5924.4	5939.4	5917.3
27.5°	5816.1	5837.4	5786.0	5804.2	5786.8
30°	5673.0	5683.3	5639.0	5662.7	5642.2
32.5°	5513.3	5519.6	5480.8	5502.1	5467.4
35°	5340.9	5348.0	5307.7	5300.6	5232.6
37.5°	5156.7	5159.8	5121.9	5057.8	4945.6
40°	4959.0	4957.5	4908.4	4760.6	4660.9
42.5°	4747.9	4747.1	4660.9	4492.5	4435.6
45°	4519.4	4507.6	4374.7	4238.7	4183.3
47.5°	4274.3	4261.6	4075.8	3967.6	3841.8
50°	4009.4	3987.3	3765.1	3617.2	3444.1
52.5°	3724.0	3690.0	3463.9	3225.1	3061.4
55°	3414.8	3364.2	3142.1	2836.9	2717.5
57.5°	3093.1	3017.9	2802.1	2504.8	2407.6
60°	2762.6	2678.7	2443.9	2199.6	2136.3
62.5°	2422.6	2339.6	2100.0	1915.8	1881.0
65°	2075.5	2015.3	1788.5	1672.2	1660.4
67.5°	1719.7	1698.3	1525.2	1465.9	1461.1
70°	1393.9	1390.0	1293.5	1263.4	1266.6
72.5°	1114.1	1109.3	1095.1	1080.0	1080.8
75°	853.1	868.1	895.8	907.6	906.9
77.5°	636.5	667.3	725.8	749.5	745.6
80°	454.7	500.5	574.8	597.0	572.5
82.5°	302.8	351.0	438.8	442.0	422.2
85°	178.7	230.1	310.0	307.6	295.7
87.5°	88.5	138.4	185.8	177.9	170.0
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)