

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: P730559

Luminaire Tested: **HBLED-LD5-18HE-W-CL-WG-UNV-L835**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33385)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CL-WG-UNV-L835
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS,
WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16432.0 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

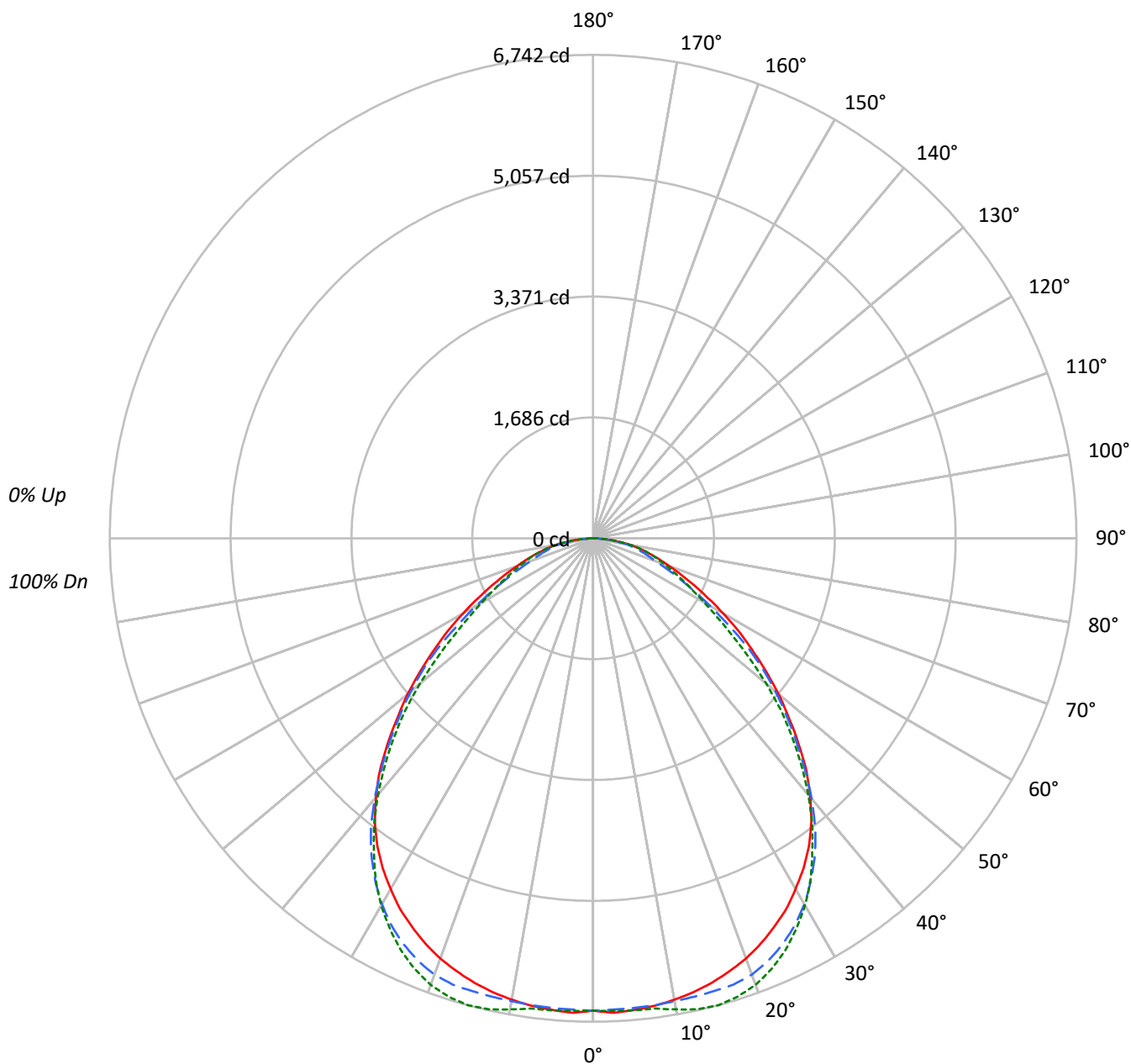
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730559

CATALOG NUMBER: HBLED-LD5-18HE-W-CL-WG-UNV-L835

Luminous Intensity Polar Plot





TEST NUMBER: P730559

CATALOG NUMBER: HBLED-LD5-18HE-W-CL-WG-UNV-L835

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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48		
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31		
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10638	10638	10638
5°	10701	10657	10709
10°	10710	10747	10939
15°	10724	10925	11269
20°	10716	11125	11385
25°	10651	11135	11299
30°	10529	10988	11023
35°	10341	10632	10505
40°	9933	9994	9836
45°	9255	9158	8972
50°	8473	8337	7910
55°	7611	7329	6688
60°	6750	6064	5773
65°	5947	5038	5239
70°	5319	4372	4990
75°	4983	4251	5046
80°	4851	4298	4803
85°	3872	3401	3525



TEST NUMBER: P730559

CATALOG NUMBER: HBLED-LD5-18HE-W-CL-WG-UNV-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.6	3.8
10°-20°	1848.8	11.3
20°-30°	2844.1	17.3
30°-40°	3319.2	20.2
40°-50°	3084.5	18.8
50°-60°	2286.3	13.9
60°-70°	1397.7	8.5
70°-80°	796.1	4.8
80°-90°	227.7	1.4
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°	5320.5	32.4
0°-40°	8639.8	52.6
0°-60°	14010.6	85.3
0°-90°	16432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6589	6589	6589	6589	6589	
5°	6602	6572	6575	6570	6608	628
15°	6415	6412	6536	6665	6742	1811
25°	5979	6024	6251	6303	6342	2754
35°	5246	5287	5394	5350	5330	3269
45°	4053	4077	4011	3948	3929	3123
55°	2704	2636	2604	2418	2376	2426
65°	1557	1414	1319	1354	1371	1558
75°	799	750	682	777	809	855
85°	209	204	184	190	190	241
90°	0	0	0	0	0	



TEST NUMBER: P730559

CATALOG NUMBER: HBLED-LD5-18HE-W-CL-WG-UNV-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6588.8	6588.8	6588.8	6588.8	6588.8
2.5°	6624.4	6587.1	6580.2	6565.0	6598.9
5°	6602.4	6571.7	6575.1	6570.1	6607.5
7.5°	6576.8	6554.8	6568.4	6566.6	6616.0
10°	6532.7	6520.8	6554.8	6592.2	6672.0
12.5°	6483.4	6471.5	6546.3	6641.4	6728.1
15°	6415.4	6412.0	6536.1	6665.2	6741.7
17.5°	6330.4	6335.6	6524.1	6634.7	6702.6
20°	6237.0	6245.5	6474.9	6565.0	6626.2
22.5°	6116.3	6145.2	6379.7	6454.5	6502.1
25°	5978.6	6024.5	6250.6	6303.3	6342.3
27.5°	5830.8	5876.7	6090.8	6118.0	6140.1
30°	5647.3	5711.8	5893.7	5897.1	5912.3
32.5°	5460.3	5518.1	5657.5	5642.1	5645.5
35°	5246.2	5287.0	5394.0	5349.9	5329.5
37.5°	4999.8	5021.9	5089.8	5023.6	5020.1
40°	4712.6	4741.5	4741.5	4649.7	4666.7
42.5°	4406.7	4416.8	4374.4	4287.7	4301.3
45°	4053.2	4077.0	4010.7	3947.8	3929.1
47.5°	3703.1	3726.9	3657.2	3584.2	3551.9
50°	3373.4	3361.5	3319.1	3195.0	3149.1
52.5°	3031.8	2994.4	2977.5	2795.6	2742.9
55°	2703.8	2635.9	2603.6	2418.3	2375.8
57.5°	2399.6	2277.3	2216.1	2071.7	2054.6
60°	2090.4	1952.7	1877.9	1784.4	1787.8
62.5°	1809.9	1665.4	1575.4	1548.2	1560.1
65°	1556.7	1413.9	1318.8	1354.5	1371.4
67.5°	1327.3	1210.0	1102.9	1186.2	1203.2
70°	1126.7	1033.3	926.2	1048.6	1057.1
72.5°	960.2	883.7	793.6	909.2	927.9
75°	798.7	749.5	681.5	776.7	808.9
77.5°	657.7	618.6	579.5	637.3	673.0
80°	521.7	482.7	462.2	492.8	516.6
82.5°	368.8	343.3	322.9	345.0	356.9
85°	209.0	203.9	183.6	190.3	190.3
87.5°	47.6	54.4	61.2	56.1	47.6
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)