

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: P730575

Luminaire Tested: **HBLED-LD5-18HE-W-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-UNV-L740
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19967.0 lumens
Efficiency: N/A
Efficacy: 181.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

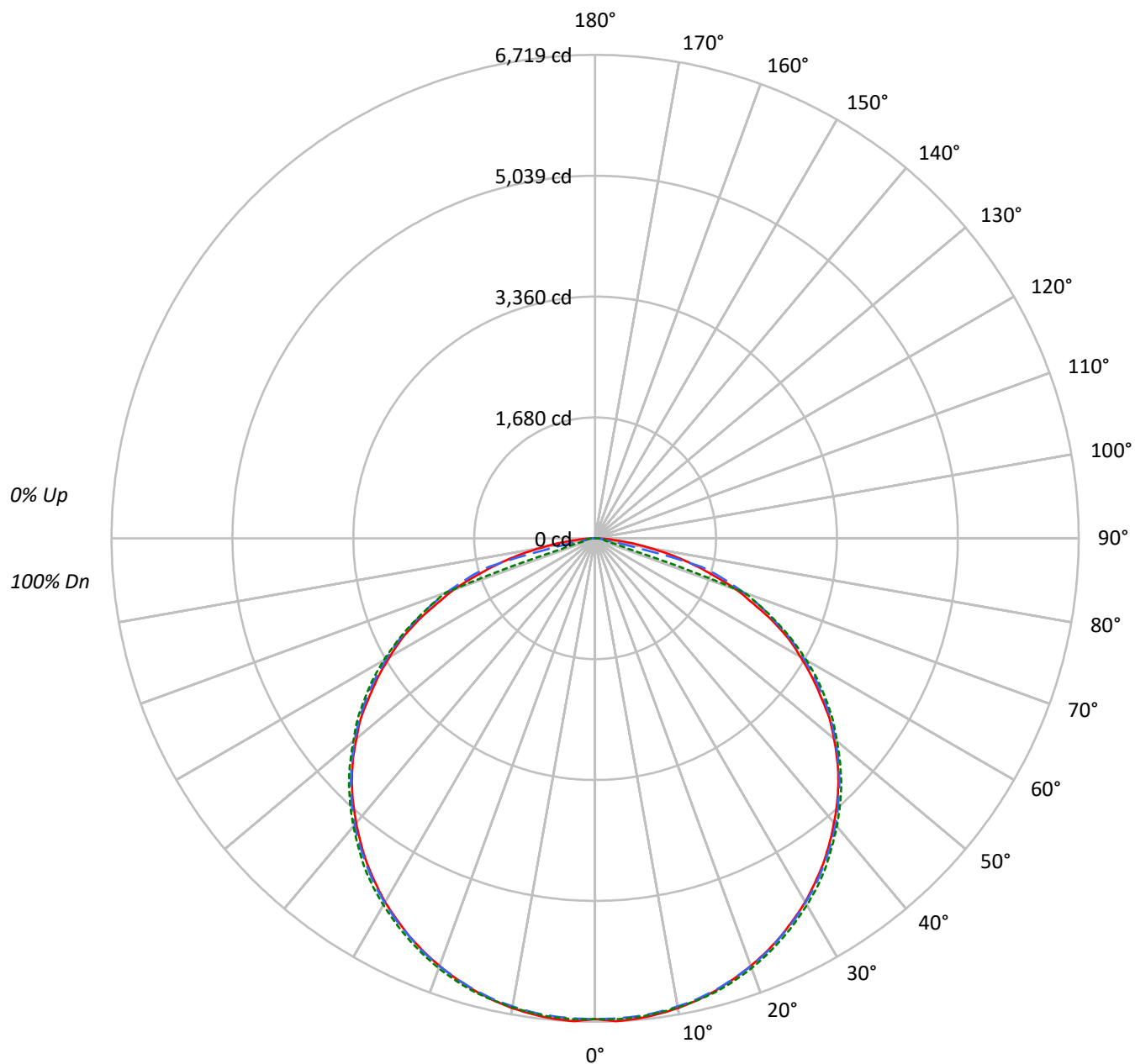
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730575

CATALOG NUMBER: HBLED-LD5-18HE-W-UNV-L740

Luminous Intensity Polar Plot





TEST NUMBER: P730575

CATALOG NUMBER: HBLED-LD5-18HE-W-UNV-L740

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	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10788	10788	10788
5°	10865	10810	10829
10°	10871	10832	10854
15°	10870	10855	10905
20°	10869	10872	10928
25°	10874	10880	10946
30°	10886	10900	10972
35°	10884	10919	11010
40°	10886	10955	11015
45°	10916	10957	11046
50°	10883	10947	11018
55°	10764	10914	11032
60°	10641	10815	10949
65°	10406	10622	10702
70°	9879	10301	10427
75°	8812	9555	1152
80°	7086	1190	1259
85°	4715	1545	1571



TEST NUMBER: P730575

CATALOG NUMBER: HBLED-LD5-18HE-W-UNV-L740

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.6	3.2
10°-20°	1833.7	9.2
20°-30°	2817.3	14.1
30°-40°	3468.2	17.4
40°-50°	3697.5	18.5
50°-60°	3456.4	17.3
60°-70°	2736.2	13.7
70°-80°	1164.1	5.8
80°-90°	159.0	0.8
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°	5285.6	26.5
0°-40°	8753.8	43.8
0°-60°	15907.7	79.7
0°-90°	19967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6682	6682	6682	6682	6682	
5°	6704	6674	6670	6643	6682	637
15°	6503	6491	6494	6476	6524	1836
25°	6104	6097	6107	6104	6144	2814
35°	5522	5513	5540	5559	5586	3455
45°	4781	4754	4799	4818	4837	3684
55°	3824	3836	3877	3891	3919	3424
65°	2724	2748	2780	2801	2801	2680
75°	1412	1474	1532	250	185	1494
85°	254	76	83	86	85	332
90°	0	0	0	0	0	



TEST NUMBER: P730575

CATALOG NUMBER: HBLED-LD5-18HE-W-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6681.5	6681.5	6681.5	6681.5	6681.5
2.5°	6718.7	6687.5	6681.5	6654.7	6690.5
5°	6703.9	6674.1	6669.6	6642.8	6681.5
7.5°	6672.6	6648.8	6645.8	6617.5	6656.2
10°	6630.9	6608.6	6607.1	6581.8	6620.5
12.5°	6574.4	6555.0	6561.0	6535.7	6574.4
15°	6502.9	6491.0	6494.0	6476.1	6523.8
17.5°	6416.6	6410.6	6416.6	6403.2	6446.4
20°	6325.8	6318.4	6327.3	6319.8	6360.0
22.5°	6220.1	6211.2	6229.0	6218.6	6255.8
25°	6104.0	6096.6	6107.0	6104.0	6144.2
27.5°	5971.6	5964.1	5986.4	5987.9	6019.2
30°	5839.1	5828.7	5846.5	5854.0	5885.2
32.5°	5681.3	5678.3	5705.1	5711.1	5743.8
35°	5522.0	5513.1	5539.9	5559.3	5586.1
37.5°	5347.9	5346.4	5374.7	5391.1	5404.5
40°	5164.8	5157.4	5197.6	5213.9	5225.9
42.5°	4978.8	4962.4	5001.1	5021.9	5035.3
45°	4780.8	4754.0	4798.7	4818.0	4837.4
47.5°	4563.5	4539.7	4582.9	4603.7	4617.1
50°	4332.8	4310.5	4358.1	4376.0	4386.4
52.5°	4100.6	4078.3	4128.9	4143.8	4169.1
55°	3823.8	3835.7	3877.3	3890.7	3919.0
57.5°	3567.7	3578.2	3618.4	3634.7	3667.5
60°	3295.4	3311.7	3349.0	3365.3	3390.6
62.5°	3031.9	3033.4	3078.1	3085.5	3104.8
65°	2723.8	2747.6	2780.4	2801.2	2801.2
67.5°	2380.0	2438.0	2494.6	2490.1	2502.0
70°	2092.7	2115.0	2182.0	2192.4	2208.8
72.5°	1732.5	1790.6	1865.0	1393.2	473.3
75°	1412.5	1473.5	1531.6	250.1	184.6
77.5°	1097.0	1144.6	509.0	142.9	139.9
80°	762.1	838.0	128.0	131.0	135.4
82.5°	501.6	409.3	105.7	116.1	117.6
85°	254.5	75.9	83.4	86.3	84.8
87.5°	83.4	46.1	47.6	49.1	50.6
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)