

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: P#

Luminaire Tested: **HBLED-LD5-18HE-N-CL-UNV-L740-ED2-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CL-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

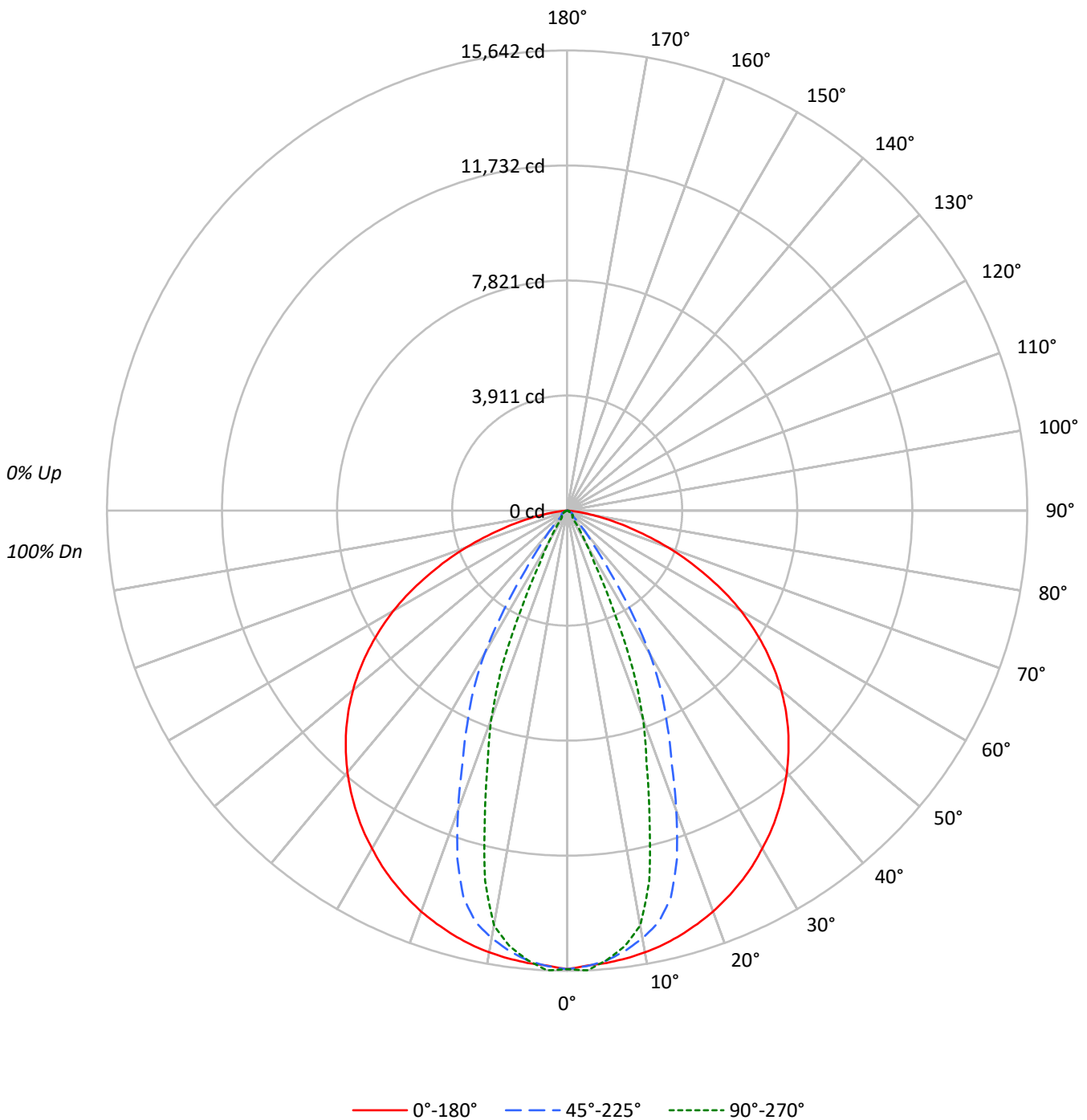
Lumens per Lamp: N/A
Luminaire Lumens: 16673.0 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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: P#
CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L740-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L740-ED2-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20976	20976	20976
5°	20847	20738	20723
10°	20833	20165	19570
15°	20809	18962	15047
20°	20769	15518	10793
25°	20703	11956	5485
30°	20605	8726	1995
35°	20532	4007	694
40°	20405	1819	479
45°	20224	679	486
50°	19901	493	511
55°	19312	518	389
60°	18352	554	343
65°	16643	422	280
70°	14270	304	257
75°	10907	270	245
80°	6824	253	266
85°	2155	295	357



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L740-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1451.4	8.7
10°-20°	3656.2	21.9
20°-30°	3981.7	23.9
30°-40°	2978.5	17.9
40°-50°	2141.6	12.8
50°-60°	1315.3	7.9
60°-70°	756.8	4.5
70°-80°	337.8	2.0
80°-90°	53.6	0.3
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°	9089.3	54.5
0°-40°	12067.8	72.4
0°-60°	15524.8	93.1
0°-90°	16673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15590	15590	15590	15590	15590	
5°	15435	15508	15354	15369	15343	###
15°	14939	14652	13613	11691	10802	4217
25°	13946	12945	8053	5167	3694	6428
35°	12500	8965	2440	717	423	7819
45°	10628	5037	357	264	255	8188
55°	8233	1047	221	214	166	7340
65°	5228	115	132	110	88	5175
75°	2098	69	52	53	47	2277
85°	140	14	19	25	23	278
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-N-CL-UNV-L740-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15589.7	15589.7	15589.7	15589.7	15589.7
2.5°	15481.2	15582.5	15497.2	15573.7	15641.6
5°	15434.9	15507.5	15354.4	15368.7	15343.2
7.5°	15355.2	15372.7	15095.9	14989.0	14937.1
10°	15248.3	15201.2	14759.2	14504.8	14323.7
12.5°	15113.4	14957.9	14340.4	13431.8	12890.1
15°	14938.7	14652.3	13612.9	11691.1	10802.4
17.5°	14730.5	14333.2	12408.3	9743.8	8974.7
20°	14504.8	13980.6	10837.5	8284.7	7538.0
22.5°	14238.3	13529.9	9288.2	6890.2	5865.1
25°	13945.5	12945.1	8053.3	5167.0	3694.4
27.5°	13629.6	12173.7	6910.1	3168.7	1997.6
30°	13262.7	11234.8	5616.2	1778.2	1284.4
32.5°	12904.5	10140.2	4011.9	1184.7	820.9
35°	12500.0	8965.2	2439.5	717.2	422.8
37.5°	12071.6	7897.0	1526.9	390.1	292.0
40°	11617.7	6883.8	1035.5	276.8	272.8
42.5°	11132.6	5967.2	648.6	263.3	272.0
45°	10628.5	5037.0	356.6	264.1	255.3
47.5°	10081.2	4027.1	248.9	249.7	248.9
50°	9507.6	2888.7	235.3	246.5	244.1
52.5°	8889.4	1793.3	236.1	240.9	216.2
55°	8232.8	1046.7	221.0	213.8	165.9
57.5°	7542.8	652.6	216.2	176.3	149.2
60°	6820.0	344.6	205.8	158.8	127.6
62.5°	6050.2	169.9	165.1	135.6	104.5
65°	5227.7	114.9	132.4	110.1	87.8
67.5°	4433.1	103.7	99.7	90.1	76.6
70°	3627.4	94.9	77.4	79.0	65.4
72.5°	2836.8	86.2	62.2	67.8	55.0
75°	2098.1	69.4	51.9	53.4	47.1
77.5°	1459.9	54.2	40.7	45.5	43.9
80°	880.7	34.3	32.7	37.5	34.3
82.5°	426.8	22.3	25.5	29.5	27.1
85°	139.6	13.6	19.1	24.7	23.1
87.5°	17.6	8.0	16.0	21.5	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)