

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-W-AWG-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-AWG-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

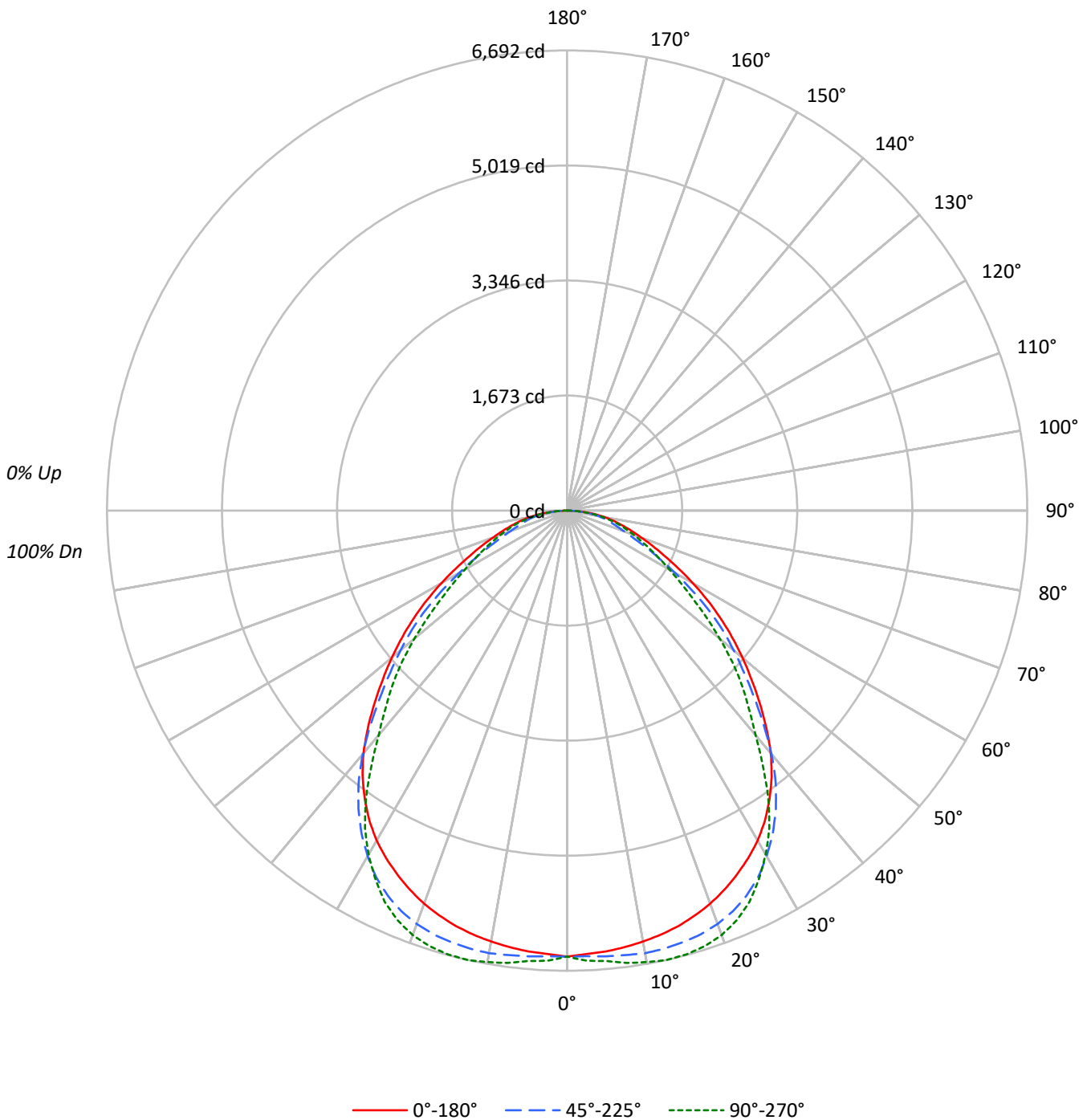
Lumens per Lamp: N/A
Luminaire Lumens: 16077.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-W-AWG-UNV-L740-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-AWG-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8726	8726	8726
5°	8692	8789	8879
10°	8695	8931	9110
15°	8711	9054	9309
20°	8709	9158	9404
25°	8672	9170	9319
30°	8607	9017	8970
35°	8425	8691	8375
40°	8095	8119	7487
45°	7535	7320	6844
50°	6965	6619	6065
55°	6376	5866	5233
60°	5685	4869	4622
65°	4986	4007	4246
70°	4502	3451	4043
75°	4303	3383	4032
80°	4338	3581	3934
85°	3842	3281	3433



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-AWG-UNV-L740-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.0	3.9
10°-20°	1835.9	11.4
20°-30°	2816.0	17.5
30°-40°	3238.8	20.1
40°-50°	2954.1	18.4
50°-60°	2214.1	13.8
60°-70°	1361.9	8.5
70°-80°	780.5	4.9
80°-90°	252.7	1.6
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°	5274.9	32.8
0°-40°	8513.8	53.0
0°-60°	13681.9	85.1
0°-90°	16077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6485	6485	6485	6485	6485	
5°	6436	6501	6508	6561	6574	612
15°	6254	6393	6500	6639	6683	1765
25°	5841	6009	6177	6272	6277	2692
35°	5129	5229	5291	5204	5099	3199
45°	3960	4046	3847	3648	3597	3056
55°	2718	2617	2500	2280	2231	2428
65°	1566	1401	1258	1297	1334	1575
75°	828	742	651	745	776	885
85°	249	235	212	224	222	278
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18HE-W-AWG-UNV-L740-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6485.3	6485.3	6485.3	6485.3	6485.3
2.5°	6454.7	6501.0	6486.2	6524.2	6552.3
5°	6435.7	6501.0	6507.7	6561.4	6573.8
7.5°	6403.5	6488.6	6518.4	6613.5	6635.0
10°	6363.8	6466.3	6536.6	6639.1	6668.1
12.5°	6315.8	6434.9	6524.2	6650.7	6692.1
15°	6253.8	6392.7	6500.2	6639.1	6683.0
17.5°	6175.2	6336.5	6462.2	6598.6	6644.1
20°	6082.6	6253.0	6396.0	6535.8	6568.0
22.5°	5971.0	6142.2	6305.1	6430.8	6448.1
25°	5841.2	6009.0	6176.9	6272.0	6277.0
27.5°	5699.8	5856.1	6013.2	6064.4	6042.1
30°	5540.2	5679.9	5804.0	5814.7	5773.4
32.5°	5350.8	5476.5	5565.0	5541.8	5472.4
35°	5129.2	5229.3	5291.3	5204.5	5098.6
37.5°	4886.1	4961.4	4982.0	4793.5	4672.8
40°	4609.1	4673.6	4622.3	4360.2	4262.6
42.5°	4289.9	4364.3	4232.9	3974.1	3914.5
45°	3960.0	4046.0	3846.7	3648.3	3597.0
47.5°	3636.7	3715.2	3489.5	3329.9	3253.8
50°	3327.4	3361.3	3162.0	2981.8	2897.4
52.5°	3023.1	2989.2	2847.8	2623.7	2549.3
55°	2718.0	2617.1	2500.5	2279.7	2231.0
57.5°	2412.0	2271.5	2144.1	1974.6	1955.6
60°	2112.7	1939.9	1809.2	1708.4	1717.5
62.5°	1827.4	1651.3	1511.6	1479.3	1514.0
65°	1566.1	1400.8	1258.5	1297.4	1333.8
67.5°	1348.7	1189.9	1045.2	1144.4	1173.4
70°	1144.4	1016.3	877.3	1005.5	1027.8
72.5°	981.5	872.4	751.6	876.5	895.5
75°	827.7	741.7	650.8	745.0	775.6
77.5°	693.8	622.7	560.6	616.0	649.1
80°	559.8	499.4	462.2	487.0	507.7
82.5°	410.1	371.3	344.0	354.7	358.0
85°	248.9	234.8	212.5	224.1	222.4
87.5°	81.9	93.4	98.4	88.5	83.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)