

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-LD5-18SE-W-CLI-UNV-L740-ED1-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CLI-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

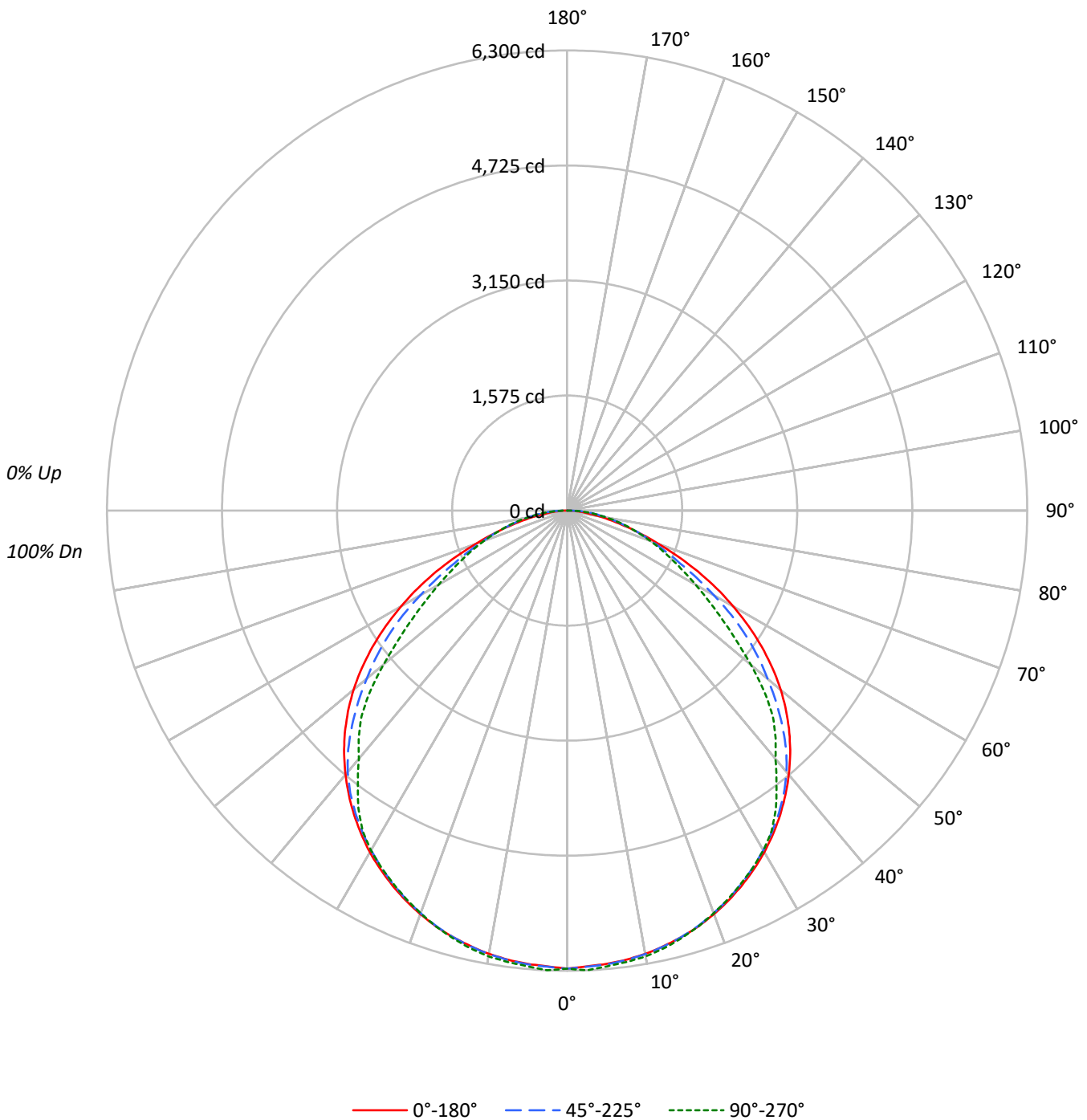
Lumens per Lamp: N/A
Luminaire Lumens: 16848.0 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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-LD5-18SE-W-CLI-UNV-L740-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-CLI-UNV-L740-ED1-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	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°	8437	8437	8437
5°	8415	8421	8458
10°	8419	8424	8468
15°	8421	8419	8439
20°	8419	8399	8401
25°	8406	8374	8364
30°	8392	8342	8346
35°	8353	8301	8183
40°	8293	8209	7795
45°	8188	7926	7579
50°	7991	7504	6864
55°	7627	7018	6069
60°	7078	6262	5474
65°	6291	5422	5033
70°	5221	4845	4744
75°	4223	4434	4489
80°	3354	4241	4223
85°	2626	4556	4347



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-CLI-UNV-L740-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.7	3.5
10°-20°	1710.6	10.2
20°-30°	2608.4	15.5
30°-40°	3155.7	18.7
40°-50°	3196.5	19.0
50°-60°	2642.0	15.7
60°-70°	1745.0	10.4
70°-80°	909.9	5.4
80°-90°	285.2	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°	4913.7	29.2
0°-40°	8069.4	47.9
0°-60°	13907.9	82.5
0°-90°	16848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6271	6271	6271	6271	6271	
5°	6230	6268	6235	6262	6263	593
15°	6045	6076	6044	6063	6059	1707
25°	5662	5684	5641	5655	5634	2611
35°	5085	5092	5054	5047	4982	3181
45°	4303	4292	4165	4036	3983	3313
55°	3251	3203	2992	2701	2587	2898
65°	1976	1919	1703	1592	1581	1952
75°	812	827	853	864	864	885
85°	170	219	295	293	282	207
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-18SE-W-CLI-UNV-L740-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6270.9	6270.9	6270.9	6270.9	6270.9
2.5°	6244.6	6281.5	6250.6	6277.7	6299.5
5°	6230.3	6267.9	6234.8	6261.9	6262.6
7.5°	6202.4	6240.1	6206.2	6233.3	6232.5
10°	6162.5	6197.9	6165.5	6197.9	6197.9
12.5°	6108.3	6142.9	6111.3	6141.4	6136.9
15°	6045.1	6075.9	6044.3	6063.1	6058.6
17.5°	5970.5	5998.4	5963.0	5978.8	5969.8
20°	5879.5	5905.1	5865.9	5886.2	5867.4
22.5°	5777.1	5801.2	5761.3	5776.3	5755.2
25°	5661.9	5684.5	5640.8	5655.1	5634.0
27.5°	5537.7	5558.0	5509.1	5526.4	5509.8
30°	5401.4	5411.2	5369.1	5391.6	5372.1
32.5°	5249.4	5255.4	5218.5	5238.8	5205.7
35°	5085.2	5092.0	5053.6	5046.8	4982.1
37.5°	4909.8	4912.8	4876.7	4815.7	4708.8
40°	4721.6	4720.1	4673.5	4532.7	4437.8
42.5°	4520.6	4519.9	4437.8	4277.5	4223.3
45°	4303.1	4291.8	4165.3	4035.8	3983.1
47.5°	4069.7	4057.7	3880.7	3777.6	3657.9
50°	3817.5	3796.4	3584.9	3444.1	3279.2
52.5°	3545.7	3513.4	3298.1	3070.7	2914.9
55°	3251.4	3203.2	2991.7	2701.1	2587.4
57.5°	2945.0	2873.5	2668.0	2384.9	2292.3
60°	2630.3	2550.5	2326.9	2094.3	2034.1
62.5°	2306.6	2227.6	1999.5	1824.1	1790.9
65°	1976.1	1918.9	1702.9	1592.2	1580.9
67.5°	1637.4	1617.0	1452.2	1395.7	1391.2
70°	1327.2	1323.4	1231.6	1203.0	1206.0
72.5°	1060.7	1056.2	1042.6	1028.3	1029.1
75°	812.3	826.6	852.9	864.2	863.5
77.5°	606.0	635.4	691.1	713.7	709.9
80°	432.9	476.5	547.3	568.4	545.0
82.5°	288.3	334.2	417.8	420.8	402.0
85°	170.1	219.1	295.1	292.8	281.6
87.5°	84.3	131.7	176.9	169.4	161.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)