

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-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 (P23760)
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-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

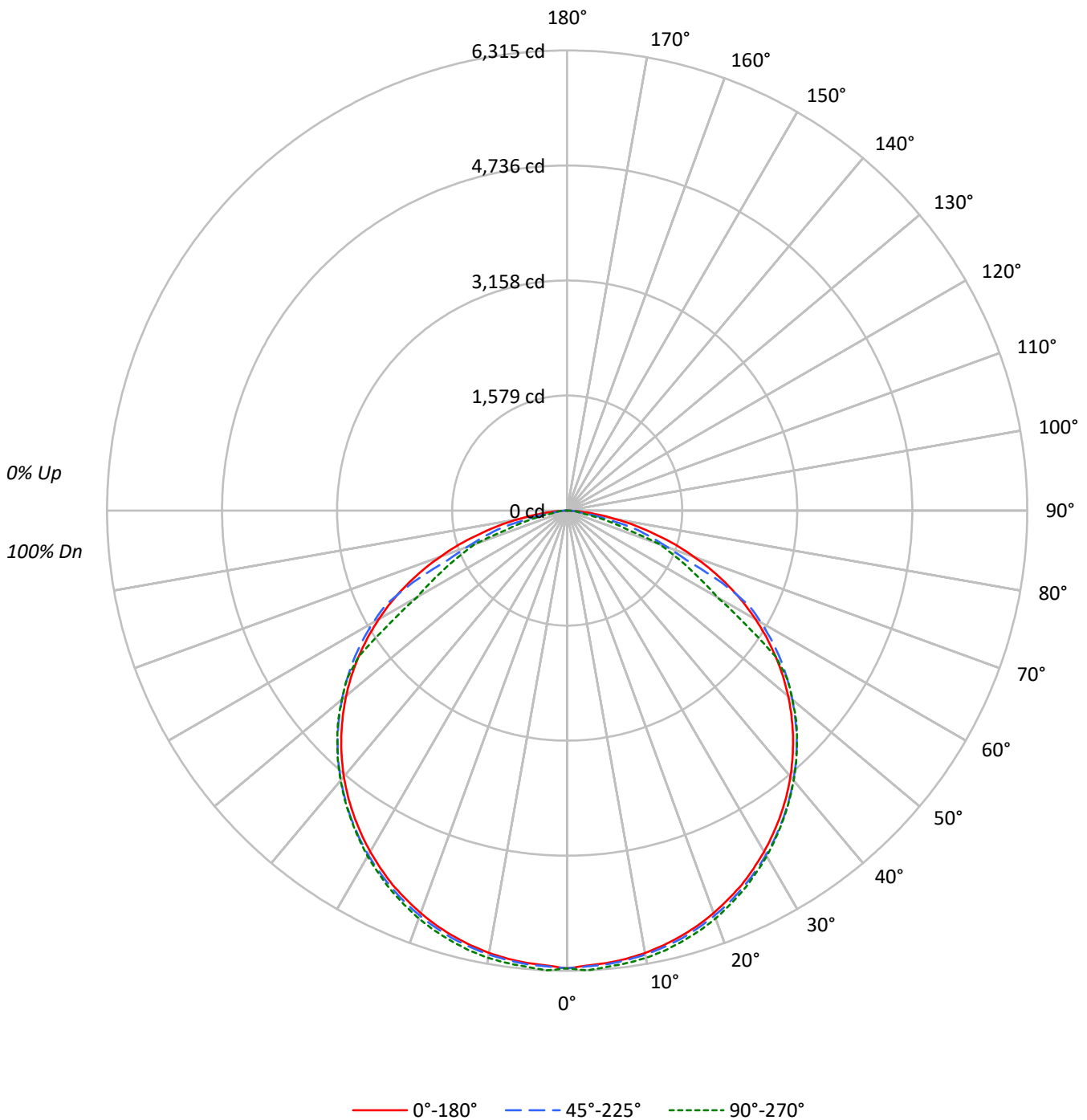
Lumens per Lamp: N/A
Luminaire Lumens: 18136.0 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



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Luminous Intensity Polar Plot





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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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8452	8452	8452
5°	8418	8441	8489
10°	8422	8452	8516
15°	8420	8465	8524
20°	8416	8470	8529
25°	8413	8473	8520
30°	8398	8480	8512
35°	8388	8484	8495
40°	8372	8483	8497
45°	8341	8480	8490
50°	8291	8444	8442
55°	8194	8399	8191
60°	8042	8275	6409
65°	7774	7448	5774
70°	7283	5730	5321
75°	6449	4996	3316
80°	5311	2941	1482
85°	3500	1802	1942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.1	3.3
10°-20°	1719.9	9.5
20°-30°	2636.9	14.5
30°-40°	3233.8	17.8
40°-50°	3433.8	18.9
50°-60°	3136.4	17.3
60°-70°	2184.2	12.0
70°-80°	1018.7	5.6
80°-90°	176.2	1.0
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°	4952.9	27.3
0°-40°	8186.8	45.1
0°-60°	14756.9	81.4
0°-90°	18136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18136.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6282	6282	6282	6282	6282	
5°	6232	6276	6250	6280	6285	593
15°	6045	6087	6077	6114	6120	1707
25°	5667	5716	5708	5750	5739	2611
35°	5106	5165	5165	5200	5172	3195
45°	4383	4450	4456	4485	4462	3381
55°	3493	3563	3580	3587	3492	3120
65°	2442	2517	2339	1860	1814	2409
75°	1240	1319	961	666	638	1326
85°	227	149	117	125	126	293
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6282.1	6282.1	6282.1	6282.1	6282.1
2.5°	6249.0	6288.9	6262.6	6291.2	6315.3
5°	6232.4	6276.1	6249.8	6279.9	6285.2
7.5°	6205.3	6246.7	6222.6	6255.8	6264.1
10°	6164.7	6205.3	6186.5	6225.7	6233.2
12.5°	6109.7	6151.1	6136.8	6179.7	6185.0
15°	6044.9	6087.1	6077.3	6114.2	6119.5
17.5°	5968.8	6012.5	6001.2	6040.4	6044.1
20°	5877.7	5925.1	5915.4	5961.3	5956.8
22.5°	5775.3	5825.7	5818.2	5864.1	5850.6
25°	5666.8	5716.5	5707.5	5749.7	5739.1
27.5°	5539.5	5594.5	5586.2	5626.9	5610.3
30°	5405.5	5461.2	5458.2	5495.1	5478.5
32.5°	5260.9	5320.4	5317.3	5353.5	5327.9
35°	5106.5	5165.2	5165.2	5199.8	5172.0
37.5°	4943.0	5002.5	5003.3	5036.4	5010.1
40°	4766.8	4826.3	4830.0	4861.7	4837.6
42.5°	4581.5	4646.3	4649.3	4677.9	4655.3
45°	4383.4	4449.7	4456.5	4485.1	4461.7
47.5°	4176.3	4243.3	4249.4	4280.2	4263.7
50°	3960.9	4025.7	4033.9	4059.6	4033.2
52.5°	3733.4	3799.7	3811.0	3826.8	3814.8
55°	3493.2	3563.2	3580.5	3586.6	3491.7
57.5°	3244.6	3316.2	3332.8	3194.2	2889.1
60°	2988.6	3059.4	3075.2	2598.4	2381.5
62.5°	2721.9	2791.2	2808.6	2153.3	2084.0
65°	2441.8	2517.1	2339.3	1860.3	1813.6
67.5°	2154.1	2231.6	1769.2	1594.4	1566.6
70°	1851.3	1929.6	1456.6	1359.5	1352.7
72.5°	1560.6	1618.6	1195.3	1030.3	867.6
75°	1240.5	1318.8	961.0	665.8	637.9
77.5°	961.8	831.5	579.9	488.1	384.9
80°	685.4	555.8	379.6	202.6	191.3
82.5°	434.6	363.0	149.1	152.9	159.7
85°	226.7	149.1	116.7	125.0	125.8
87.5°	73.1	64.0	70.0	69.3	68.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)