

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-FLI-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 (P26703)  
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-FLI-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

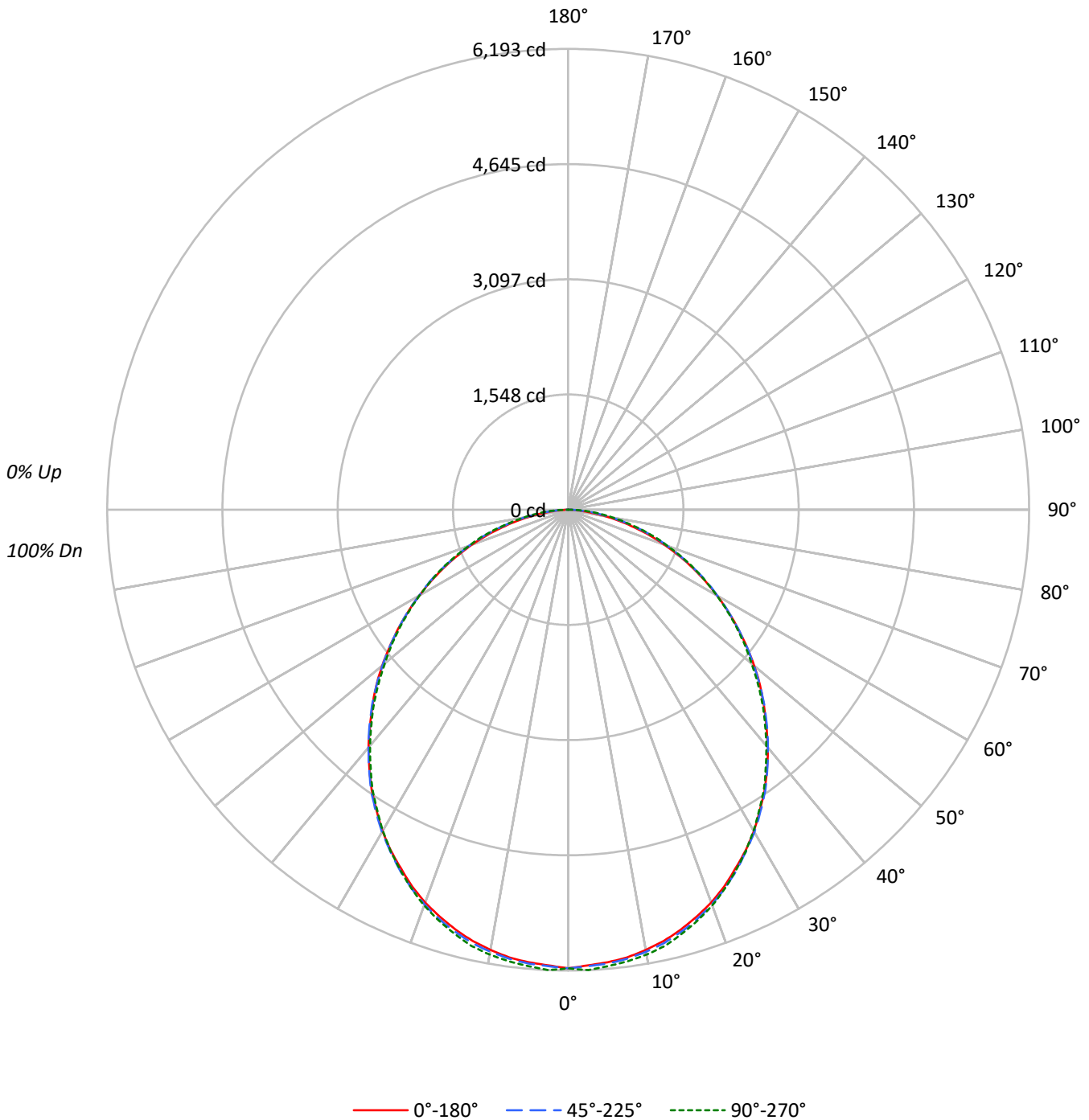
Lumens per Lamp: N/A  
Luminaire Lumens: 16099.0 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8293	8293	8293
5°	8245	8269	8316
10°	8208	8241	8294
15°	8136	8180	8220
20°	8044	8082	8106
25°	7895	7939	7928
30°	7749	7770	7738
35°	7557	7577	7528
40°	7330	7330	7274
45°	7074	7093	7021
50°	6831	6819	6734
55°	6535	6536	6477
60°	6218	6226	6202
65°	5861	5919	5934
70°	5414	5561	5568
75°	4784	5094	5173
80°	3924	4462	4713
85°	2723	3745	4236



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.9	3.6
10°-20°	1658.2	10.3
20°-30°	2464.1	15.3
30°-40°	2881.2	17.9
40°-50°	2872.7	17.8
50°-60°	2492.4	15.5
60°-70°	1840.9	11.4
70°-80°	1030.7	6.4
80°-90°	275.0	1.7
90°-100°	0.8	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°	4705.2	29.2
0°-40°	7586.4	47.1
0°-60°	12951.5	80.4
0°-90°	16098.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	16099.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6163	6163	6163	6163	6163	
5°	6105	6143	6122	6149	6157	580
15°	5841	5881	5872	5901	5901	1647
25°	5318	5360	5348	5360	5340	2452
35°	4601	4641	4613	4612	4583	2874
45°	3718	3757	3728	3712	3690	2870
55°	2786	2805	2786	2782	2761	2491
65°	1841	1859	1859	1869	1864	1821
75°	920	948	980	987	995	980
85°	176	213	243	264	274	214
90°	0	4	5	11	10	7
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6163.2	6163.2	6163.2	6163.2	6163.2
2.5°	6129.4	6165.9	6140.4	6164.7	6192.9
5°	6104.8	6143.2	6122.0	6149.0	6156.9
7.5°	6068.7	6105.9	6085.5	6112.6	6120.8
10°	6007.6	6047.9	6031.9	6062.4	6071.0
12.5°	5936.2	5974.2	5963.7	5999.3	6005.2
15°	5840.6	5881.4	5872.3	5900.6	5900.9
17.5°	5734.8	5773.2	5766.5	5788.5	5787.7
20°	5617.6	5658.7	5644.6	5668.5	5661.1
22.5°	5478.8	5522.7	5505.1	5525.1	5506.3
25°	5317.8	5360.5	5347.9	5359.7	5340.1
27.5°	5161.8	5201.0	5175.1	5189.2	5168.4
30°	4987.7	5021.1	5001.1	5005.8	4980.7
32.5°	4792.2	4831.8	4807.5	4806.7	4780.0
35°	4600.9	4641.3	4612.7	4611.9	4583.3
37.5°	4389.3	4426.9	4393.2	4395.1	4361.8
40°	4173.3	4205.8	4173.3	4171.7	4141.2
42.5°	3938.9	3982.0	3952.3	3955.8	3915.0
45°	3717.5	3757.1	3727.7	3712.4	3689.7
47.5°	3496.8	3514.1	3489.8	3485.9	3453.7
50°	3263.2	3276.2	3257.8	3253.0	3217.0
52.5°	3021.8	3044.1	3020.6	3014.4	2990.5
55°	2785.9	2805.1	2786.3	2781.6	2761.2
57.5°	2548.4	2573.4	2554.2	2549.5	2533.1
60°	2310.8	2318.3	2313.6	2320.6	2304.6
62.5°	2074.9	2092.1	2097.6	2095.7	2083.1
65°	1840.9	1858.9	1859.3	1868.7	1864.0
67.5°	1601.4	1625.0	1631.6	1641.4	1645.7
70°	1376.1	1394.1	1413.7	1419.6	1415.3
72.5°	1149.1	1178.2	1200.1	1205.2	1223.6
75°	920.3	947.7	979.8	986.9	995.1
77.5°	707.8	744.3	773.3	782.7	792.9
80°	506.4	546.7	575.8	588.7	608.3
82.5°	332.4	373.5	402.9	415.8	439.7
85°	176.4	213.2	242.6	264.2	274.4
87.5°	52.1	83.5	100.3	106.6	115.6
90°	0.0	3.9	4.7	10.6	9.8
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)