

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-LD5-15SE-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-LD5-15SE-W-FLI-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

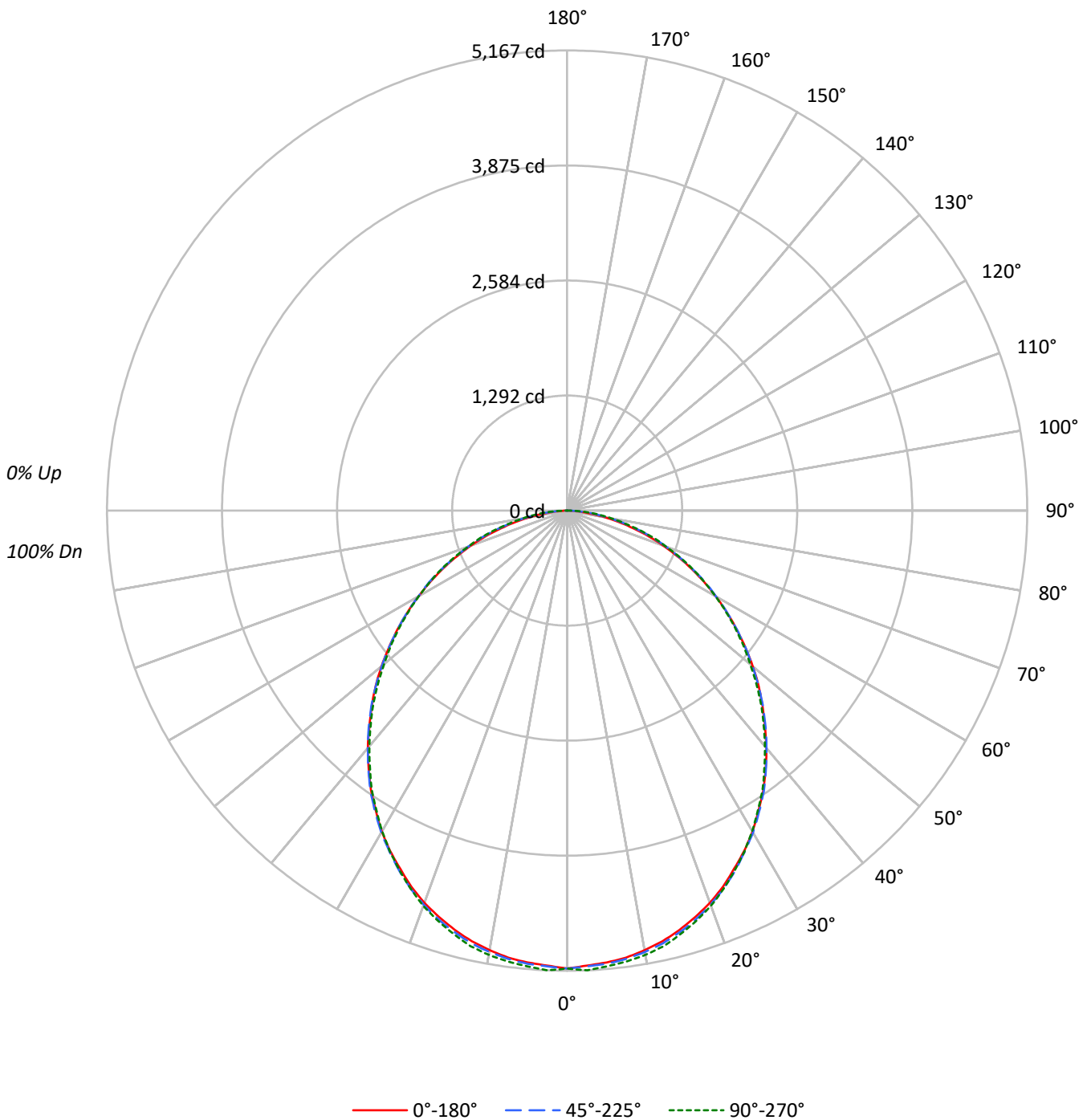
Lumens per Lamp: N/A  
Luminaire Lumens: 13432.0 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 95.2  
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°	6919	6919	6919
5°	6879	6899	6938
10°	6848	6876	6920
15°	6788	6825	6858
20°	6711	6743	6763
25°	6587	6624	6614
30°	6465	6483	6456
35°	6305	6321	6281
40°	6116	6116	6069
45°	5902	5918	5858
50°	5699	5690	5618
55°	5452	5453	5404
60°	5188	5194	5174
65°	4890	4939	4951
70°	4517	4640	4645
75°	3991	4250	4316
80°	3274	3722	3932
85°	2272	3125	3534



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.3	3.6
10°-20°	1383.5	10.3
20°-30°	2055.9	15.3
30°-40°	2403.9	17.9
40°-50°	2396.8	17.8
50°-60°	2079.5	15.5
60°-70°	1536.0	11.4
70°-80°	860.0	6.4
80°-90°	229.5	1.7
90°-100°	0.7	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°	3925.7	29.2
0°-40°	6329.6	47.1
0°-60°	10805.9	80.4
0°-90°	13431.3	100.0
90°-120°	0.7	0.0
90°-150°	0.7	0.0
90°-180°	1.0	0.0
0°-180°	13432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5142	5142	5142	5142	5142	
5°	5093	5126	5108	5130	5137	484
15°	4873	4907	4900	4923	4923	1374
25°	4437	4472	4462	4472	4455	2046
35°	3839	3872	3848	3848	3824	2398
45°	3102	3135	3110	3097	3078	2394
55°	2324	2340	2325	2321	2304	2078
65°	1536	1551	1551	1559	1555	1519
75°	768	791	818	823	830	818
85°	147	178	202	220	229	179
90°	0	3	4	9	8	6
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-LD5-15SE-W-FLI-UNV-L740-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5142.1	5142.1	5142.1	5142.1	5142.1
2.5°	5114.0	5144.4	5123.2	5143.5	5167.0
5°	5093.4	5125.5	5107.8	5130.4	5136.9
7.5°	5063.3	5094.4	5077.4	5100.0	5106.8
10°	5012.3	5046.0	5032.6	5058.1	5065.3
12.5°	4952.8	4984.5	4975.7	5005.5	5010.4
15°	4873.0	4907.0	4899.5	4923.1	4923.4
17.5°	4784.7	4816.8	4811.2	4829.5	4828.9
20°	4687.0	4721.3	4709.5	4729.5	4723.3
22.5°	4571.2	4607.8	4593.1	4609.8	4594.1
25°	4436.8	4472.4	4462.0	4471.8	4455.4
27.5°	4306.7	4339.4	4317.8	4329.5	4312.2
30°	4161.5	4189.3	4172.6	4176.5	4155.6
32.5°	3998.3	4031.3	4011.0	4010.4	3988.1
35°	3838.7	3872.4	3848.5	3847.9	3824.0
37.5°	3662.1	3693.5	3665.4	3667.0	3639.2
40°	3481.9	3509.1	3481.9	3480.6	3455.1
42.5°	3286.4	3322.4	3297.5	3300.5	3266.5
45°	3101.6	3134.7	3110.1	3097.4	3078.4
47.5°	2917.5	2931.9	2911.6	2908.4	2881.6
50°	2722.6	2733.4	2718.1	2714.1	2684.1
52.5°	2521.2	2539.8	2520.2	2515.0	2495.0
55°	2324.3	2340.4	2324.7	2320.8	2303.7
57.5°	2126.2	2147.1	2131.1	2127.2	2113.4
60°	1928.0	1934.2	1930.3	1936.2	1922.8
62.5°	1731.2	1745.6	1750.1	1748.5	1738.0
65°	1535.9	1551.0	1551.3	1559.2	1555.2
67.5°	1336.1	1355.8	1361.3	1369.5	1373.1
70°	1148.1	1163.2	1179.5	1184.4	1180.8
72.5°	958.8	983.0	1001.3	1005.5	1020.9
75°	767.8	790.7	817.5	823.4	830.3
77.5°	590.6	621.0	645.2	653.0	661.5
80°	422.5	456.2	480.4	491.2	507.5
82.5°	277.3	311.6	336.2	347.0	366.9
85°	147.2	177.9	202.4	220.4	228.9
87.5°	43.5	69.7	83.7	88.9	96.5
90°	0.0	3.3	3.9	8.8	8.2
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)