

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-L735-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-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

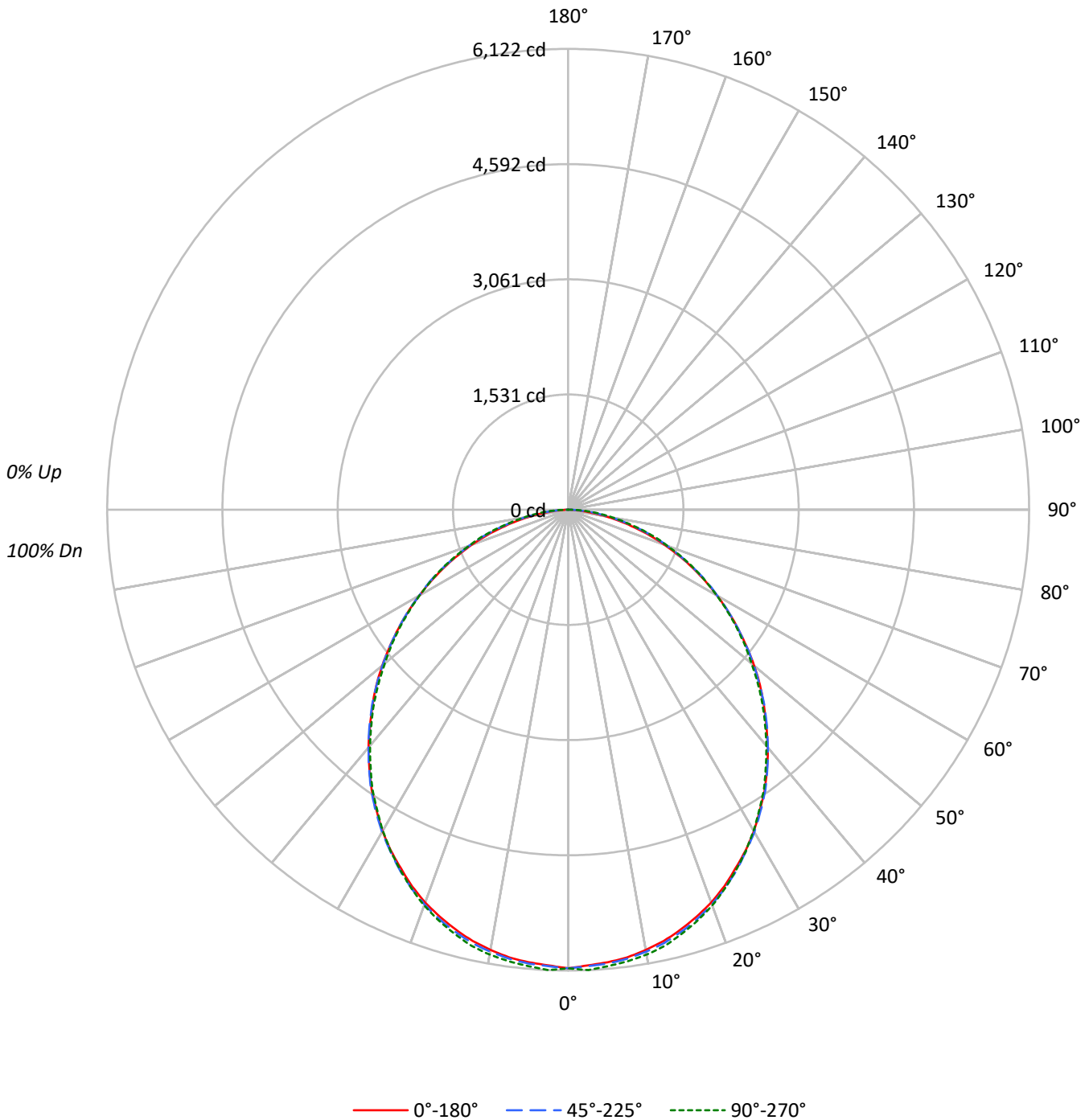
Lumens per Lamp: N/A  
Luminaire Lumens: 15914.0 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	8197	8197	8197
5°	8151	8173	8220
10°	8113	8146	8199
15°	8042	8086	8125
20°	7951	7989	8013
25°	7804	7848	7837
30°	7660	7681	7649
35°	7470	7489	7442
40°	7246	7246	7190
45°	6992	7011	6940
50°	6752	6741	6656
55°	6460	6461	6403
60°	6147	6154	6130
65°	5794	5852	5866
70°	5351	5498	5504
75°	4729	5035	5114
80°	3879	4410	4659
85°	2691	3702	4187



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.2	3.6
10°-20°	1639.1	10.3
20°-30°	2435.8	15.3
30°-40°	2848.1	17.9
40°-50°	2839.6	17.8
50°-60°	2463.8	15.5
60°-70°	1819.8	11.4
70°-80°	1018.9	6.4
80°-90°	271.9	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°	4651.1	29.2
0°-40°	7499.2	47.1
0°-60°	12802.7	80.4
0°-90°	15913.2	100.0
90°-120°	0.8	0.0
90°-150°	0.8	0.0
90°-180°	1.0	0.0
0°-180°	15914.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6092	6092	6092	6092	6092	
5°	6035	6073	6052	6078	6086	573
15°	5774	5814	5805	5833	5833	1628
25°	5257	5299	5286	5298	5279	2424
35°	4548	4588	4560	4559	4531	2841
45°	3675	3714	3685	3670	3647	2837
55°	2754	2773	2754	2750	2729	2463
65°	1820	1838	1838	1847	1843	1800
75°	910	937	969	976	984	969
85°	174	211	240	261	271	212
90°	0	4	5	10	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-L735-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6092.3	6092.3	6092.3	6092.3	6092.3
2.5°	6059.0	6095.0	6069.9	6093.9	6121.8
5°	6034.6	6072.6	6051.6	6078.4	6086.1
7.5°	5999.0	6035.8	6015.6	6042.4	6050.5
10°	5938.5	5978.4	5962.5	5992.8	6001.3
12.5°	5868.0	5905.6	5895.1	5930.4	5936.2
15°	5773.5	5813.8	5804.9	5832.8	5833.1
17.5°	5668.9	5706.8	5700.3	5721.9	5721.2
20°	5553.0	5593.7	5579.8	5603.4	5596.0
22.5°	5415.9	5459.3	5441.8	5461.6	5443.0
25°	5256.6	5298.9	5286.5	5298.1	5278.7
27.5°	5102.4	5141.2	5115.6	5129.6	5109.0
30°	4930.4	4963.4	4943.6	4948.2	4923.5
32.5°	4737.1	4776.2	4752.2	4751.4	4725.1
35°	4548.0	4587.9	4559.7	4558.9	4530.6
37.5°	4338.8	4376.0	4342.7	4344.6	4311.7
40°	4125.3	4157.5	4125.3	4123.8	4093.6
42.5°	3893.7	3936.3	3906.8	3910.3	3870.0
45°	3674.8	3713.9	3684.8	3669.7	3647.3
47.5°	3456.6	3473.7	3449.7	3445.8	3414.0
50°	3225.7	3238.5	3220.3	3215.7	3180.0
52.5°	2987.1	3009.2	2985.9	2979.7	2956.1
55°	2753.8	2772.8	2754.2	2749.6	2729.4
57.5°	2519.1	2543.9	2524.9	2520.2	2504.0
60°	2284.3	2291.6	2287.0	2294.0	2278.1
62.5°	2051.1	2068.1	2073.5	2071.6	2059.2
65°	1819.8	1837.6	1838.0	1847.3	1842.6
67.5°	1583.0	1606.3	1612.9	1622.6	1626.8
70°	1360.3	1378.1	1397.5	1403.3	1399.0
72.5°	1135.9	1164.6	1186.3	1191.3	1209.6
75°	909.7	936.8	968.6	975.5	983.7
77.5°	699.7	735.7	764.4	773.7	783.8
80°	500.6	540.5	569.1	581.9	601.3
82.5°	328.5	369.2	398.3	411.1	434.7
85°	174.3	210.8	239.8	261.1	271.2
87.5°	51.5	82.5	99.2	105.4	114.3
90°	0.0	3.9	4.6	10.5	9.7
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)