

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-CLWG-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-W-CLWG-UNV-L735-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

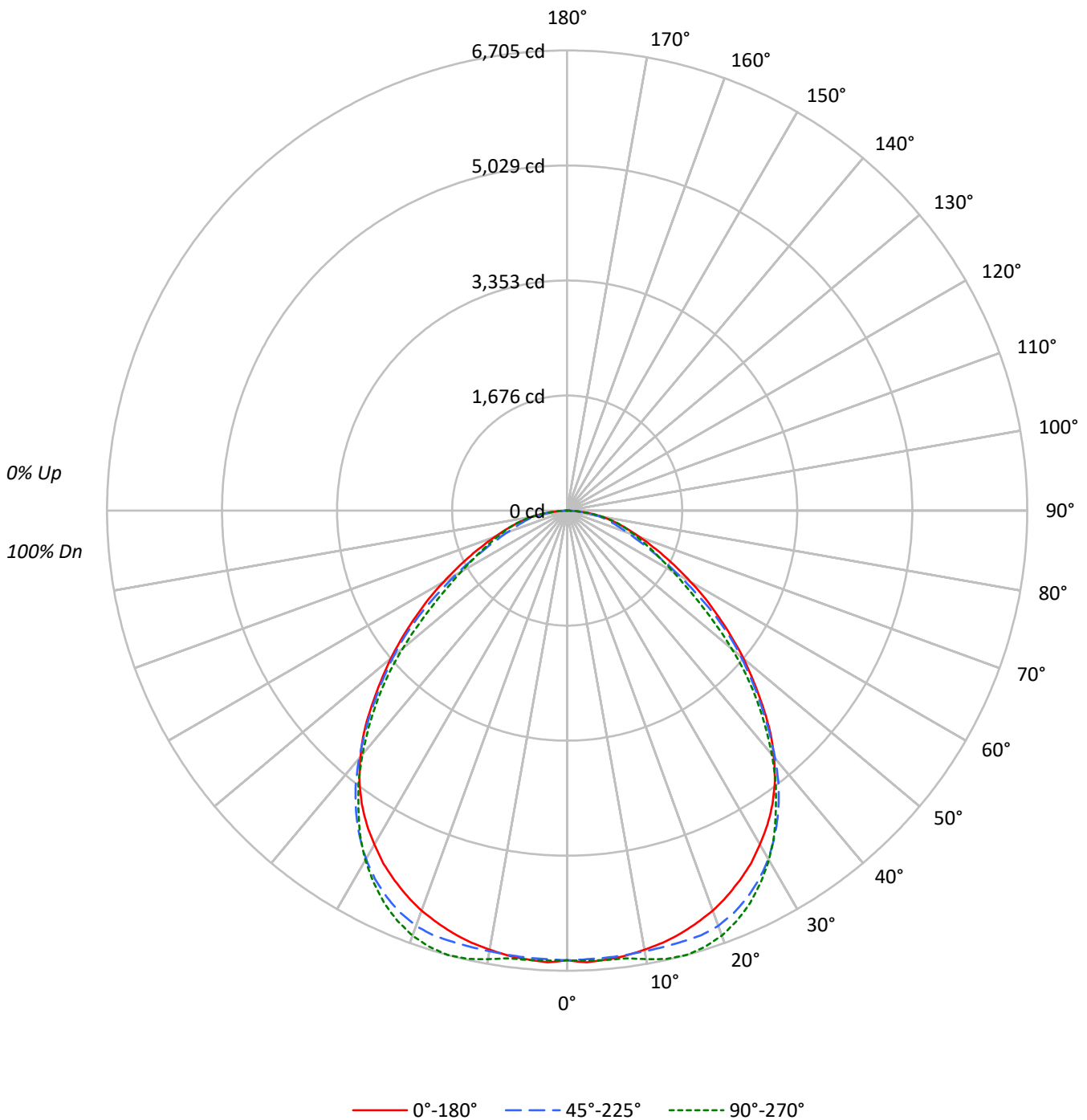
Lumens per Lamp: N/A  
Luminaire Lumens: 16343.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 121.76  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

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

	0°	45°	90°
0°	8817	8817	8817
5°	8869	8832	8876
10°	8877	8907	9066
15°	8888	9055	9340
20°	8882	9221	9436
25°	8828	9229	9365
30°	8726	9107	9136
35°	8570	8812	8706
40°	8232	8283	8152
45°	7671	7590	7436
50°	7023	6910	6556
55°	6308	6074	5543
60°	5595	5026	4785
65°	4929	4176	4343
70°	4408	3624	4136
75°	4130	3524	4183
80°	4021	3562	3981
85°	3210	2817	2922



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.2	3.8
10°-20°	1838.8	11.3
20°-30°	2828.7	17.3
30°-40°	3301.3	20.2
40°-50°	3067.7	18.8
50°-60°	2273.9	13.9
60°-70°	1390.1	8.5
70°-80°	791.8	4.8
80°-90°	226.4	1.4
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°	5291.7	32.4
0°-40°	8593.0	52.6
0°-60°	13934.7	85.3
0°-90°	16343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16343.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6553	6553	6553	6553	6553	
5°	6567	6536	6540	6534	6572	625
15°	6381	6377	6501	6629	6705	1801
25°	5946	5992	6217	6269	6308	2739
35°	5218	5258	5365	5321	5301	3251
45°	4031	4055	3989	3926	3908	3106
55°	2689	2622	2590	2405	2363	2413
65°	1548	1406	1312	1347	1364	1549
75°	794	745	678	772	805	850
85°	208	203	182	189	189	240
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6553.1	6553.1	6553.1	6553.1	6553.1
2.5°	6588.6	6551.4	6544.6	6529.4	6563.2
5°	6566.6	6536.2	6539.5	6534.5	6571.7
7.5°	6541.2	6519.3	6532.8	6531.1	6580.1
10°	6497.3	6485.5	6519.3	6556.5	6635.9
12.5°	6448.3	6436.4	6510.8	6605.5	6691.7
15°	6380.7	6377.3	6500.7	6629.1	6705.2
17.5°	6296.2	6301.2	6488.8	6598.7	6666.3
20°	6203.2	6211.6	6439.8	6529.4	6590.3
22.5°	6083.2	6111.9	6345.2	6419.5	6466.9
25°	5946.3	5991.9	6216.7	6269.1	6308.0
27.5°	5799.2	5844.9	6057.8	6084.9	6106.8
30°	5616.7	5680.9	5861.8	5865.1	5880.4
32.5°	5430.8	5488.2	5626.8	5611.6	5615.0
35°	5217.8	5258.3	5364.8	5320.9	5300.6
37.5°	4972.7	4994.7	5062.3	4996.4	4993.0
40°	4687.0	4715.8	4715.8	4624.5	4641.4
42.5°	4382.8	4392.9	4350.7	4264.5	4278.0
45°	4031.2	4054.9	3989.0	3926.4	3907.8
47.5°	3683.0	3706.7	3637.4	3564.7	3532.6
50°	3355.1	3343.3	3301.0	3177.7	3132.0
52.5°	3015.4	2978.2	2961.3	2780.4	2728.1
55°	2689.2	2621.6	2589.5	2405.2	2363.0
57.5°	2386.6	2264.9	2204.1	2060.4	2043.5
60°	2079.0	1942.1	1867.7	1774.8	1778.1
62.5°	1800.1	1656.4	1566.9	1539.8	1551.6
65°	1548.3	1406.3	1311.6	1347.1	1364.0
67.5°	1320.1	1203.5	1097.0	1179.8	1196.7
70°	1120.6	1027.7	921.2	1042.9	1051.3
72.5°	955.0	878.9	789.3	904.3	922.9
75°	794.4	745.4	677.8	772.4	804.6
77.5°	654.1	615.2	576.4	633.8	669.3
80°	518.9	480.0	459.7	490.2	513.8
82.5°	366.8	341.4	321.1	343.1	355.0
85°	207.9	202.8	182.5	189.3	189.3
87.5°	47.3	54.1	60.8	55.8	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)