

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-N-CLWG-UNV-L750-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 (P33344)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-N-CLWG-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

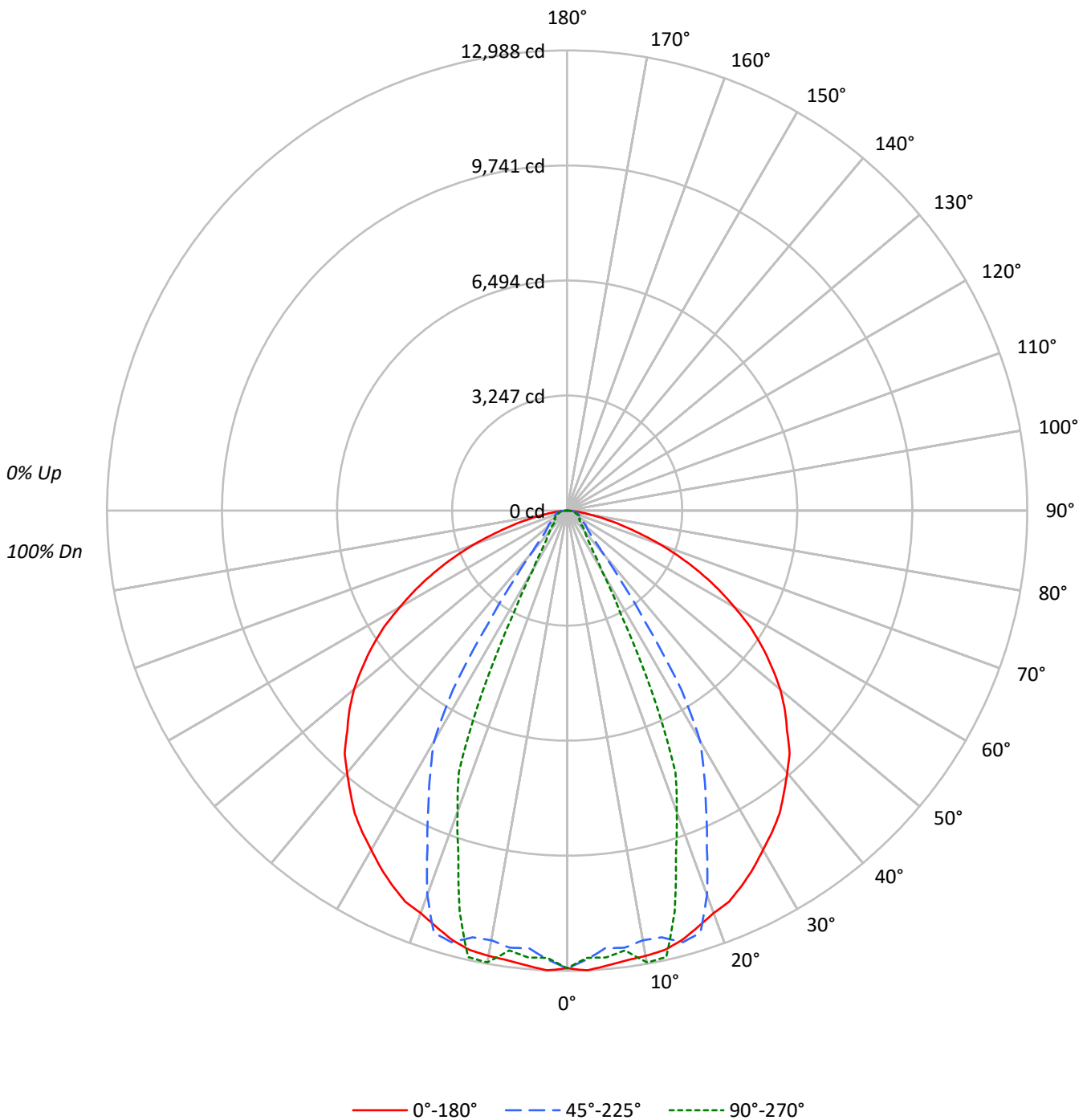
Lumens per Lamp: N/A  
Luminaire Lumens: 17366.0 lumens  
Efficiency: N/A  
Efficacy: 142.6 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

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

	0°	45°	90°
0°	17381	17381	17381
5°	17409	16746	17099
10°	17435	16827	17690
15°	17473	17564	16325
20°	17308	16520	12958
25°	17333	13772	8464
30°	17178	11667	3041
35°	17160	6320	1710
40°	16965	2755	1339
45°	16703	1703	1050
50°	16443	1483	991
55°	15797	1287	970
60°	14656	1153	1042
65°	13174	1303	1139
70°	11048	1401	1175
75°	8259	1598	1272
80°	5188	1855	1450
85°	3453	2325	2124



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1197.3	6.9
10°-20°	3380.9	19.5
20°-30°	4140.0	23.8
30°-40°	3251.2	18.7
40°-50°	2410.9	13.9
50°-60°	1467.7	8.5
60°-70°	879.2	5.1
70°-80°	482.4	2.8
80°-90°	156.5	0.9
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°	8718.2	50.2
0°-40°	11969.3	68.9
0°-60°	15848.0	91.3
0°-90°	17366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17366.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12918	12918	12918	12918	12918	
5°	12890	12539	12399	12536	12660	###
15°	12544	12200	12610	12100	11720	3532
25°	11675	11712	9277	7276	5701	5375
35°	10447	9503	3848	1288	1041	6519
45°	8778	6303	895	678	552	6788
55°	6734	1737	548	464	414	5993
65°	4138	512	409	385	358	4088
75°	1589	323	307	267	245	1720
85°	224	176	151	138	138	273
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12917.7	12917.7	12917.7	12917.7	12917.7
2.5°	12988.2	12813.2	12679.2	12604.3	12634.8
5°	12889.8	12539.0	12398.8	12535.5	12660.0
7.5°	12804.5	12283.0	12441.5	12453.7	12519.0
10°	12761.0	12258.7	12316.1	12586.9	12948.2
12.5°	12703.5	12315.3	12335.3	12704.4	12908.1
15°	12544.2	12200.3	12609.5	12100.2	11719.8
17.5°	12311.8	11932.2	12494.6	10719.5	10202.4
20°	12088.0	11640.6	11537.8	9548.5	9049.7
22.5°	11943.5	11596.2	10306.8	8508.2	7992.8
25°	11675.4	11711.9	9276.9	7276.3	5701.4
27.5°	11380.3	11439.5	8366.3	4852.6	3266.4
30°	11056.4	11124.3	7509.6	2867.7	1957.1
32.5°	10763.0	10380.0	5997.4	1789.0	1360.7
35°	10447.0	9503.3	3848.0	1287.6	1041.2
37.5°	10049.1	8582.2	2435.9	1018.6	874.1
40°	9659.1	7755.1	1568.8	869.7	762.6
42.5°	9294.3	7073.5	1141.3	760.0	688.6
45°	8778.1	6303.0	895.0	678.2	551.9
47.5°	8331.5	5399.4	782.7	573.7	476.2
50°	7855.3	4128.3	708.7	510.2	473.6
52.5°	7290.3	2700.5	654.7	488.4	442.3
55°	6734.0	1736.8	548.5	464.0	413.5
57.5°	6133.3	1101.3	484.0	450.1	431.8
60°	5446.4	742.6	428.3	426.6	387.4
62.5°	4810.8	610.3	413.5	409.2	366.5
65°	4137.9	511.9	409.2	384.8	357.8
67.5°	3465.8	438.8	370.0	351.7	328.2
70°	2808.5	401.3	356.1	348.2	298.6
72.5°	2132.9	330.8	316.0	295.1	248.1
75°	1588.8	323.0	307.3	267.3	244.6
77.5°	1075.2	297.7	279.5	239.4	221.1
80°	669.5	273.4	239.4	209.8	187.2
82.5°	397.9	228.1	196.8	173.2	158.4
85°	223.7	175.9	150.6	138.4	137.6
87.5°	47.9	63.6	50.5	47.9	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)