

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-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 (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-L740-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

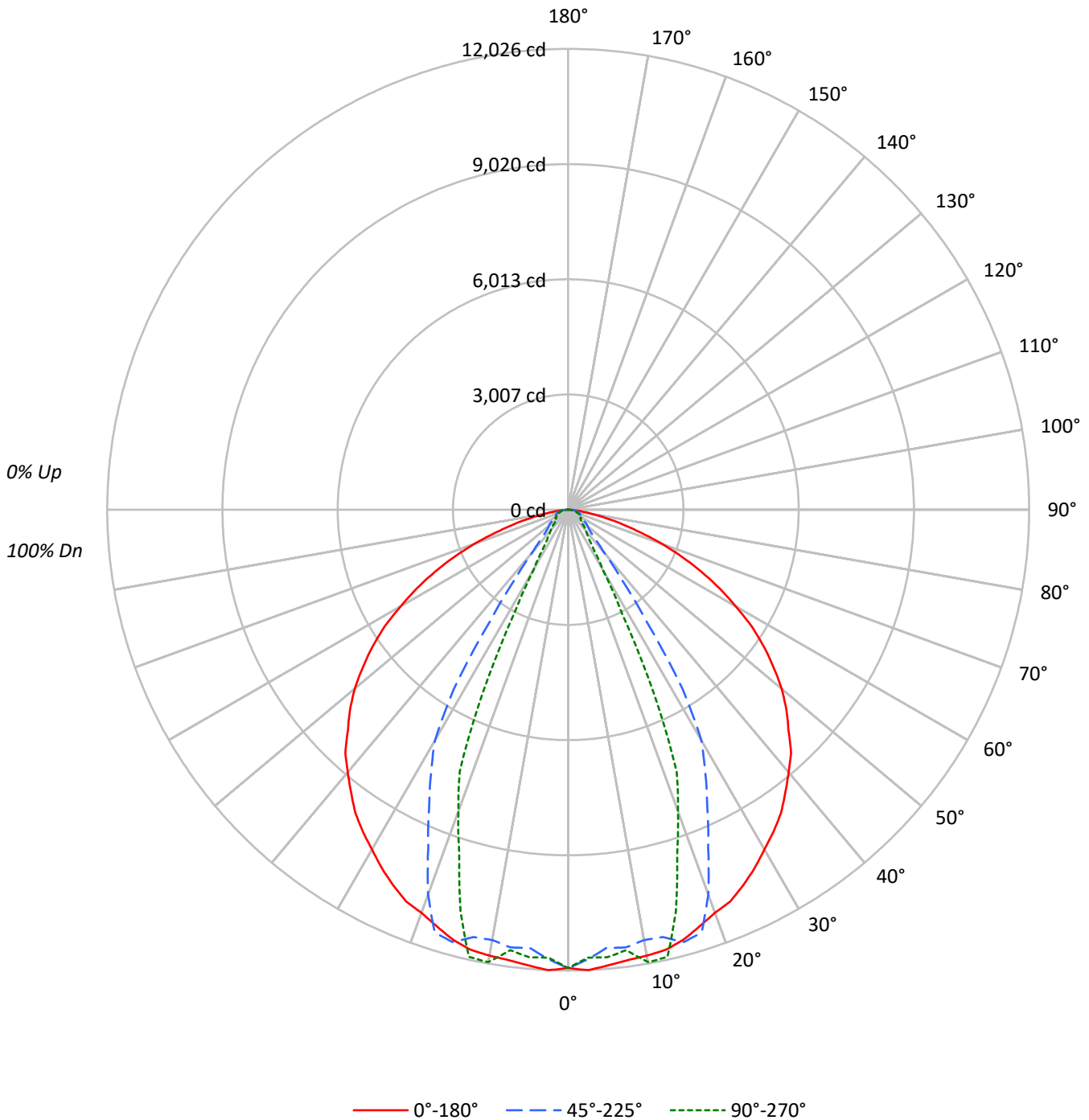
Lumens per Lamp: N/A
Luminaire Lumens: 16080.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
Input Voltage (V): NR
Input Current (A_{in}): 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°	16094	16094	16094
5°	16120	15506	15833
10°	16144	15581	16380
15°	16180	16264	15116
20°	16026	15297	11998
25°	16050	12752	7837
30°	15906	10803	2815
35°	15889	5852	1584
40°	15709	2551	1240
45°	15466	1577	973
50°	15225	1374	918
55°	14627	1191	898
60°	13571	1067	965
65°	12198	1206	1055
70°	10230	1297	1088
75°	7648	1480	1177
80°	4803	1718	1343
85°	3199	2154	1967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1108.6	6.9
10°-20°	3130.5	19.5
20°-30°	3833.4	23.8
30°-40°	3010.4	18.7
40°-50°	2232.4	13.9
50°-60°	1359.0	8.5
60°-70°	814.1	5.1
70°-80°	446.7	2.8
80°-90°	144.9	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°	8072.6	50.2
0°-40°	11083.0	68.9
0°-60°	14674.4	91.3
0°-90°	16080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11961	11961	11961	11961	11961	
5°	11935	11610	11481	11607	11722	###
15°	11615	11297	11676	11204	10852	3270
25°	10811	10845	8590	6738	5279	4977
35°	9673	8800	3563	1192	964	6036
45°	8128	5836	829	628	511	6285
55°	6235	1608	508	430	383	5549
65°	3832	474	379	356	331	3785
75°	1471	299	285	248	226	1593
85°	207	163	140	128	127	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11961.1	11961.1	11961.1	11961.1	11961.1
2.5°	12026.4	11864.4	11740.2	11670.9	11699.1
5°	11935.3	11610.5	11480.7	11607.2	11722.5
7.5°	11856.3	11373.5	11520.2	11531.5	11591.9
10°	11816.0	11350.9	11404.1	11654.8	11989.3
12.5°	11762.8	11403.3	11421.8	11763.6	11952.2
15°	11615.3	11296.9	11675.7	11204.2	10851.9
17.5°	11400.1	11048.6	11569.3	9925.7	9446.8
20°	11192.9	10778.5	10683.4	8841.5	8379.5
22.5°	11059.1	10737.4	9543.6	7878.1	7400.9
25°	10810.8	10844.6	8589.9	6737.5	5279.2
27.5°	10537.5	10592.3	7746.7	4493.3	3024.5
30°	10237.6	10300.5	6953.5	2655.3	1812.1
32.5°	9966.0	9611.3	5553.3	1656.6	1260.0
35°	9673.4	8799.5	3563.0	1192.2	964.1
37.5°	9305.0	7946.7	2255.5	943.2	809.3
40°	8943.8	7180.9	1452.6	805.3	706.2
42.5°	8606.1	6549.7	1056.8	703.7	637.6
45°	8128.0	5836.3	828.7	628.0	511.1
47.5°	7714.5	4999.5	724.7	531.2	440.9
50°	7273.6	3822.6	656.2	472.4	438.5
52.5°	6750.4	2500.6	606.2	452.2	409.5
55°	6235.3	1608.2	507.9	429.7	382.9
57.5°	5679.1	1019.7	448.2	416.8	399.8
60°	5043.0	687.6	396.6	395.0	358.7
62.5°	4454.6	565.1	382.9	378.9	339.4
65°	3831.5	474.0	378.9	356.3	331.3
67.5°	3209.1	406.3	342.6	325.7	303.9
70°	2600.5	371.6	329.7	322.4	276.5
72.5°	1975.0	306.3	292.6	273.3	229.7
75°	1471.2	299.1	284.6	247.5	226.5
77.5°	995.5	275.7	258.8	221.7	204.8
80°	619.9	253.1	221.7	194.3	173.3
82.5°	368.4	211.2	182.2	160.4	146.7
85°	207.2	162.8	139.5	128.2	127.4
87.5°	44.3	58.8	46.8	44.3	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)