

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-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 (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-L735-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

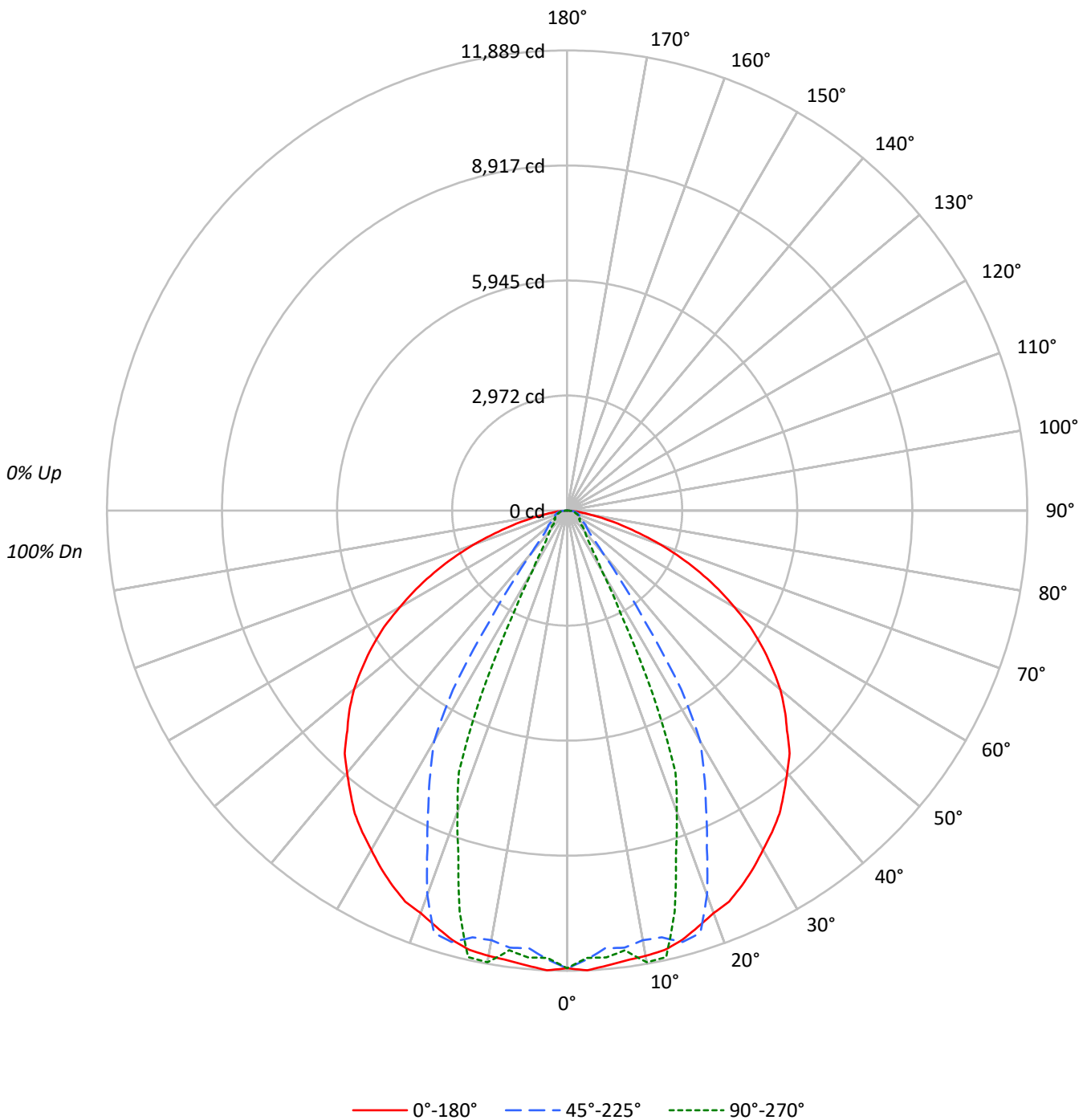
Lumens per Lamp: N/A
Luminaire Lumens: 15896.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
Input Voltage (V): NR
Input Current (A_{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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97		98	96	94		94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75		82	77	74		79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		68	63	59	58
6	79	68	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		52	46	43	41
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15909	15909	15909
5°	15936	15329	15652
10°	15959	15403	16193
15°	15994	16078	14943
20°	15843	15122	11861
25°	15866	12607	7748
30°	15724	10680	2783
35°	15707	5786	1566
40°	15529	2522	1226
45°	15289	1559	961
50°	15051	1358	907
55°	14459	1178	888
60°	13415	1055	954
65°	12059	1192	1043
70°	10113	1282	1075
75°	7560	1462	1164
80°	4748	1698	1327
85°	3162	2129	1944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1095.9	6.9
10°-20°	3094.7	19.5
20°-30°	3789.5	23.8
30°-40°	2976.0	18.7
40°-50°	2206.8	13.9
50°-60°	1343.5	8.5
60°-70°	804.8	5.1
70°-80°	441.5	2.8
80°-90°	143.2	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°	7980.2	50.2
0°-40°	10956.2	68.9
0°-60°	14506.5	91.3
0°-90°	15896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11824	11824	11824	11824	11824	
5°	11799	11478	11349	11474	11588	###
15°	11482	11168	11542	11076	10728	3233
25°	10687	10720	8492	6660	5219	4920
35°	9563	8699	3522	1179	953	5967
45°	8035	5770	819	621	505	6213
55°	6164	1590	502	425	378	5485
65°	3788	469	374	352	328	3742
75°	1454	296	281	245	224	1575
85°	205	161	138	127	126	250
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11824.2	11824.2	11824.2	11824.2	11824.2
2.5°	11888.8	11728.6	11605.9	11537.4	11565.3
5°	11798.7	11477.6	11349.3	11474.4	11588.4
7.5°	11720.6	11243.3	11388.3	11399.5	11459.3
10°	11680.8	11221.0	11273.6	11521.4	11852.1
12.5°	11628.2	11272.8	11291.1	11629.0	11815.5
15°	11482.4	11167.6	11542.1	11076.0	10727.7
17.5°	11269.6	10922.2	11437.0	9812.1	9338.7
20°	11064.8	10655.2	10561.2	8740.3	8283.7
22.5°	10932.5	10614.6	9434.4	7788.0	7316.2
25°	10687.1	10720.5	8491.7	6660.4	5218.8
27.5°	10416.9	10471.1	7658.1	4441.9	2989.9
30°	10120.5	10182.6	6874.0	2625.0	1791.4
32.5°	9851.9	9501.3	5489.8	1637.6	1245.5
35°	9562.7	8698.8	3522.3	1178.6	953.1
37.5°	9198.5	7855.7	2229.7	932.4	800.1
40°	8841.5	7098.7	1436.0	796.1	698.1
42.5°	8507.6	6474.7	1044.7	695.7	630.3
45°	8035.0	5769.5	819.2	620.8	505.2
47.5°	7626.2	4942.3	716.4	525.1	435.9
50°	7190.3	3778.8	648.7	467.0	433.5
52.5°	6673.1	2472.0	599.3	447.1	404.8
55°	6163.9	1589.8	502.0	424.7	378.5
57.5°	5614.1	1008.1	443.1	412.0	395.3
60°	4985.3	679.7	392.1	390.5	354.6
62.5°	4403.6	558.6	378.5	374.5	335.5
65°	3787.6	468.6	374.5	352.2	327.5
67.5°	3172.4	401.6	338.7	321.9	300.4
70°	2570.8	367.4	325.9	318.8	273.3
72.5°	1952.4	302.8	289.3	270.1	227.1
75°	1454.3	295.6	281.3	244.6	223.9
77.5°	984.2	272.5	255.8	219.1	202.4
80°	612.8	250.2	219.1	192.1	171.3
82.5°	364.2	208.8	180.1	158.6	145.0
85°	204.8	161.0	137.9	126.7	125.9
87.5°	43.8	58.2	46.2	43.8	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)