

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-AWG-UNV-L835-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 (P23764)
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-AWG-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

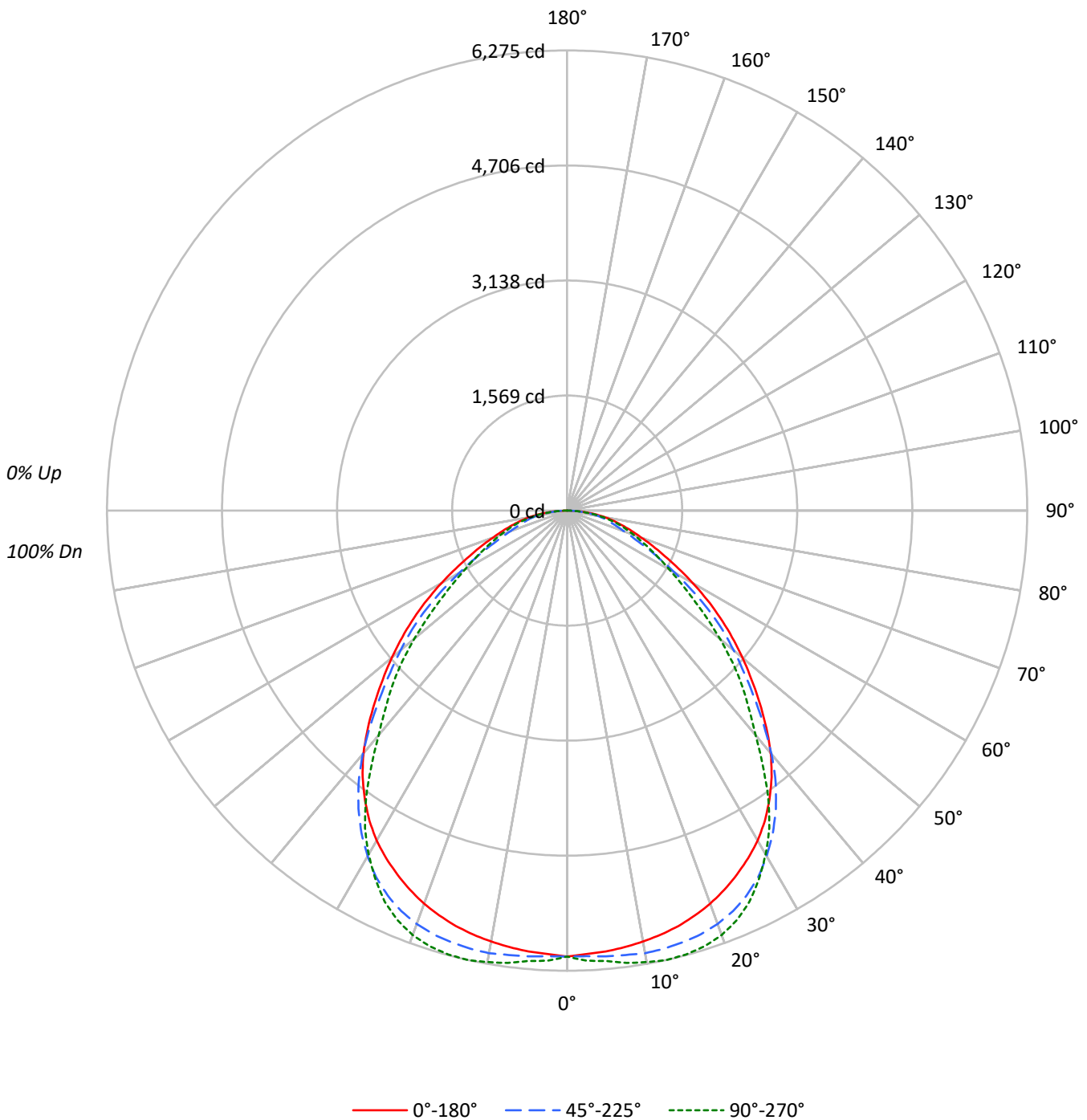
Lumens per Lamp: N/A
Luminaire Lumens: 15075.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8182	8182	8182
5°	8151	8242	8325
10°	8153	8374	8542
15°	8168	8490	8729
20°	8166	8587	8818
25°	8131	8599	8738
30°	8071	8455	8411
35°	7900	8149	7853
40°	7591	7613	7020
45°	7066	6863	6418
50°	6531	6206	5687
55°	5978	5500	4907
60°	5331	4565	4334
65°	4675	3757	3982
70°	4222	3236	3792
75°	4035	3172	3781
80°	4067	3358	3689
85°	3603	3077	3220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.2	3.9
10°-20°	1721.5	11.4
20°-30°	2640.5	17.5
30°-40°	3037.0	20.1
40°-50°	2770.0	18.4
50°-60°	2076.1	13.8
60°-70°	1277.1	8.5
70°-80°	731.8	4.9
80°-90°	236.9	1.6
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°	4946.2	32.8
0°-40°	7983.1	53.0
0°-60°	12829.2	85.1
0°-90°	15075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6081	6081	6081	6081	6081	
5°	6035	6096	6102	6152	6164	574
15°	5864	5994	6095	6225	6266	1655
25°	5477	5634	5792	5881	5886	2524
35°	4810	4903	4962	4880	4781	2999
45°	3713	3794	3607	3421	3373	2866
55°	2549	2454	2345	2138	2092	2277
65°	1468	1314	1180	1216	1251	1477
75°	776	696	610	699	727	830
85°	233	220	199	210	209	260
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6081.1	6081.1	6081.1	6081.1	6081.1
2.5°	6052.4	6095.9	6081.9	6117.6	6143.9
5°	6034.6	6095.9	6102.1	6152.5	6164.1
7.5°	6004.4	6084.2	6112.1	6201.3	6221.5
10°	5967.2	6063.3	6129.2	6225.3	6252.5
12.5°	5922.2	6033.8	6117.6	6236.2	6275.0
15°	5864.0	5994.3	6095.1	6225.3	6266.4
17.5°	5790.4	5941.6	6059.4	6187.4	6230.0
20°	5703.5	5863.3	5997.4	6128.4	6158.7
22.5°	5598.9	5759.4	5912.1	6030.0	6046.2
25°	5477.1	5634.5	5791.9	5881.1	5885.7
27.5°	5344.5	5491.1	5638.4	5686.5	5665.5
30°	5194.9	5325.9	5442.2	5452.3	5413.5
32.5°	5017.3	5135.2	5218.2	5196.4	5131.3
35°	4809.5	4903.4	4961.5	4880.1	4780.9
37.5°	4581.6	4652.1	4671.5	4494.7	4381.5
40°	4321.8	4382.3	4334.3	4088.5	3997.0
42.5°	4022.6	4092.3	3969.1	3726.4	3670.5
45°	3713.2	3793.8	3607.0	3420.9	3372.8
47.5°	3410.0	3483.7	3272.0	3122.4	3051.0
50°	3120.0	3151.8	2965.0	2795.9	2716.9
52.5°	2834.7	2802.9	2670.3	2460.2	2390.4
55°	2548.6	2454.0	2344.7	2137.7	2091.9
57.5°	2261.7	2129.9	2010.5	1851.6	1833.7
60°	1981.0	1819.0	1696.5	1601.9	1610.4
62.5°	1713.5	1548.4	1417.4	1387.1	1419.7
65°	1468.5	1313.5	1180.1	1216.5	1250.7
67.5°	1264.6	1115.7	980.1	1073.1	1100.2
70°	1073.1	952.9	822.7	942.8	963.8
72.5°	920.3	818.0	704.8	821.9	839.7
75°	776.1	695.5	610.2	698.6	727.3
77.5°	650.5	583.8	525.7	577.6	608.7
80°	524.9	468.3	433.4	456.7	476.1
82.5°	384.6	348.1	322.5	332.6	335.7
85°	233.4	220.2	199.3	210.1	208.6
87.5°	76.8	87.6	92.3	83.0	78.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)