

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-LD5-15SE-W-CLI-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-CLI-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

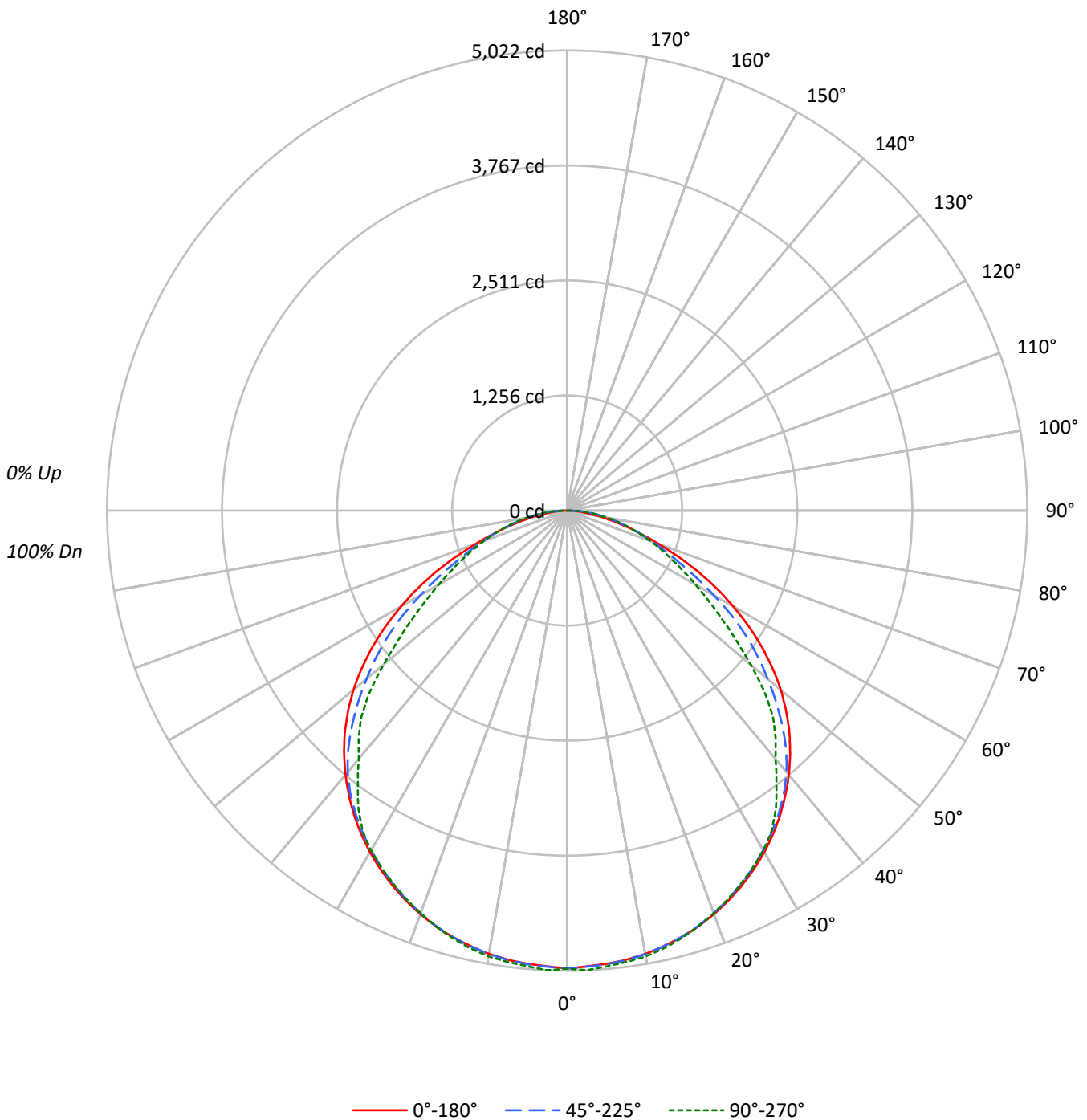
Lumens per Lamp: N/A
Luminaire Lumens: 13430.0 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6726	6726	6726
5°	6708	6712	6742
10°	6711	6715	6750
15°	6712	6711	6727
20°	6711	6695	6697
25°	6700	6675	6667
30°	6689	6649	6653
35°	6658	6617	6523
40°	6611	6543	6213
45°	6527	6318	6042
50°	6370	5982	5472
55°	6080	5594	4838
60°	5642	4991	4363
65°	5015	4322	4012
70°	4162	3862	3782
75°	3366	3535	3578
80°	2673	3381	3367
85°	2093	3631	3464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.1	3.5
10°-20°	1363.6	10.2
20°-30°	2079.2	15.5
30°-40°	2515.5	18.7
40°-50°	2548.0	19.0
50°-60°	2106.0	15.7
60°-70°	1391.0	10.4
70°-80°	725.3	5.4
80°-90°	227.4	1.7
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°	3916.8	29.2
0°-40°	6432.4	47.9
0°-60°	11086.3	82.5
0°-90°	13430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4999	4999	4999	4999	4999	
5°	4966	4996	4970	4992	4992	472
15°	4819	4843	4818	4833	4830	1361
25°	4513	4531	4496	4508	4491	2081
35°	4054	4059	4028	4023	3971	2535
45°	3430	3421	3320	3217	3175	2641
55°	2592	2553	2385	2153	2062	2310
65°	1575	1530	1357	1269	1260	1556
75°	648	659	680	689	688	705
85°	136	175	235	233	224	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4998.7	4998.7	4998.7	4998.7	4998.7
2.5°	4977.7	5007.1	4982.5	5004.1	5021.5
5°	4966.3	4996.3	4969.9	4991.5	4992.1
7.5°	4944.1	4974.1	4947.1	4968.7	4968.1
10°	4912.3	4940.5	4914.7	4940.5	4940.5
12.5°	4869.1	4896.7	4871.5	4895.5	4891.9
15°	4818.7	4843.3	4818.1	4833.1	4829.5
17.5°	4759.3	4781.5	4753.3	4765.9	4758.7
20°	4686.7	4707.1	4675.9	4692.1	4677.1
22.5°	4605.1	4624.3	4592.5	4604.5	4587.7
25°	4513.3	4531.3	4496.4	4507.9	4491.0
27.5°	4414.2	4430.4	4391.4	4405.2	4392.0
30°	4305.6	4313.4	4279.8	4297.8	4282.2
32.5°	4184.4	4189.2	4159.8	4176.0	4149.6
35°	4053.6	4059.0	4028.4	4023.0	3971.4
37.5°	3913.8	3916.2	3887.4	3838.8	3753.5
40°	3763.7	3762.5	3725.3	3613.1	3537.5
42.5°	3603.5	3602.9	3537.5	3409.7	3366.5
45°	3430.1	3421.1	3320.3	3217.1	3175.1
47.5°	3244.1	3234.5	3093.4	3011.2	2915.8
50°	3043.0	3026.2	2857.6	2745.4	2614.0
52.5°	2826.4	2800.6	2629.0	2447.8	2323.5
55°	2591.8	2553.4	2384.7	2153.1	2062.5
57.5°	2347.5	2290.5	2126.7	1901.1	1827.3
60°	2096.7	2033.1	1854.9	1669.4	1621.4
62.5°	1838.7	1775.7	1593.8	1454.0	1427.6
65°	1575.2	1529.6	1357.4	1269.2	1260.2
67.5°	1305.2	1289.0	1157.6	1112.6	1109.0
70°	1058.0	1055.0	981.7	958.9	961.3
72.5°	845.5	841.9	831.1	819.7	820.3
75°	647.5	658.9	679.9	688.9	688.3
77.5°	483.1	506.5	550.9	568.9	565.9
80°	345.0	379.9	436.3	453.1	434.5
82.5°	229.8	266.4	333.0	335.4	320.4
85°	135.6	174.6	235.2	233.4	224.4
87.5°	67.2	105.0	141.0	135.0	129.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)