

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-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-LD5-15SE-W-AWG-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

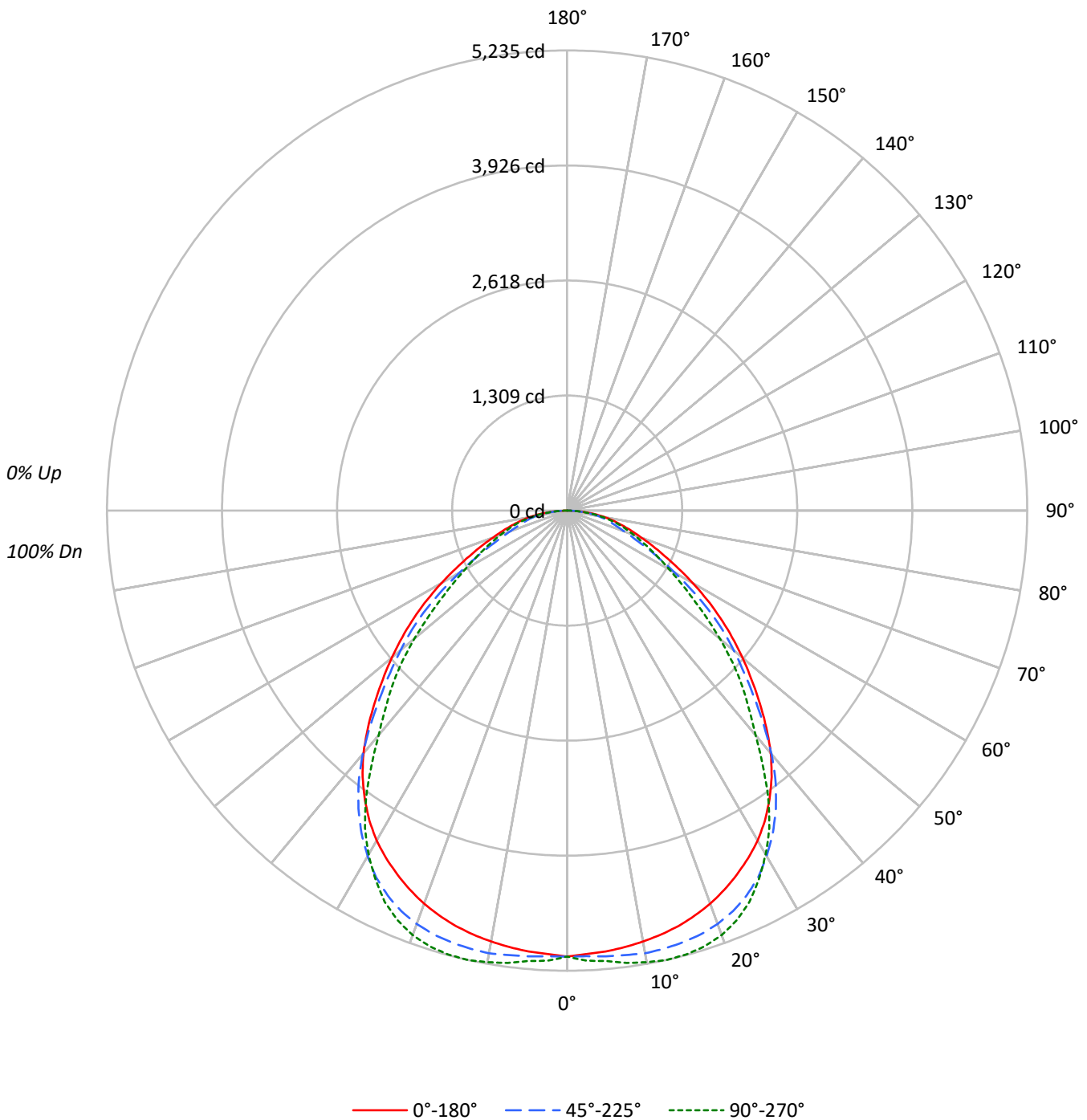
Lumens per Lamp: N/A
Luminaire Lumens: 12577.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6826	6826	6826
5°	6800	6876	6946
10°	6802	6986	7127
15°	6815	7083	7282
20°	6813	7164	7357
25°	6784	7174	7290
30°	6734	7054	7017
35°	6591	6799	6551
40°	6333	6351	5857
45°	5895	5726	5354
50°	5449	5178	4745
55°	4988	4589	4094
60°	4448	3809	3616
65°	3901	3134	3322
70°	3522	2700	3163
75°	3366	2647	3154
80°	3393	2802	3078
85°	3006	2566	2686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.4	3.9
10°-20°	1436.2	11.4
20°-30°	2203.0	17.5
30°-40°	2533.7	20.1
40°-50°	2311.0	18.4
50°-60°	1732.1	13.8
60°-70°	1065.4	8.5
70°-80°	610.6	4.9
80°-90°	197.7	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°	4126.6	32.8
0°-40°	6660.3	53.0
0°-60°	10703.3	85.1
0°-90°	12577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5074	5074	5074	5074	5074	
5°	5035	5086	5091	5133	5143	479
15°	4892	5001	5085	5194	5228	1381
25°	4570	4701	4832	4907	4910	2106
35°	4013	4091	4139	4071	3989	2502
45°	3098	3165	3009	2854	2814	2391
55°	2126	2047	1956	1783	1745	1900
65°	1225	1096	984	1015	1043	1232
75°	648	580	509	583	607	692
85°	195	184	166	175	174	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5073.5	5073.5	5073.5	5073.5	5073.5
2.5°	5049.5	5085.7	5074.1	5103.9	5125.9
5°	5034.6	5085.7	5090.9	5133.0	5142.7
7.5°	5009.4	5076.0	5099.3	5173.7	5190.5
10°	4978.4	5058.6	5113.6	5193.8	5216.4
12.5°	4940.8	5034.0	5103.9	5202.8	5235.2
15°	4892.3	5001.0	5085.1	5193.8	5228.1
17.5°	4830.9	4957.0	5055.3	5162.1	5197.7
20°	4758.4	4891.7	5003.6	5112.9	5138.1
22.5°	4671.1	4805.0	4932.4	5030.8	5044.3
25°	4569.5	4700.9	4832.2	4906.6	4910.4
27.5°	4458.9	4581.2	4704.1	4744.2	4726.7
30°	4334.1	4443.4	4540.4	4548.8	4516.5
32.5°	4185.9	4284.3	4353.5	4335.4	4281.0
35°	4012.6	4090.9	4139.4	4071.4	3988.6
37.5°	3822.4	3881.3	3897.4	3749.9	3655.5
40°	3605.7	3656.2	3616.0	3411.0	3334.7
42.5°	3356.0	3414.2	3311.4	3108.9	3062.3
45°	3097.9	3165.2	3009.3	2854.0	2813.9
47.5°	2845.0	2906.4	2729.8	2605.0	2545.5
50°	2603.0	2629.6	2473.7	2332.6	2266.7
52.5°	2365.0	2338.5	2227.8	2052.5	1994.3
55°	2126.3	2047.4	1956.2	1783.4	1745.3
57.5°	1886.9	1777.0	1677.4	1544.7	1529.9
60°	1652.8	1517.6	1415.4	1336.4	1343.6
62.5°	1429.6	1291.8	1182.5	1157.3	1184.4
65°	1225.2	1095.8	984.5	1015.0	1043.4
67.5°	1055.1	930.9	817.7	895.3	917.9
70°	895.3	795.0	686.3	786.6	804.1
72.5°	767.8	682.5	588.0	685.7	700.6
75°	647.5	580.2	509.1	582.8	606.8
77.5°	542.7	487.1	438.6	481.9	507.8
80°	437.9	390.7	361.6	381.0	397.2
82.5°	320.9	290.4	269.1	277.5	280.1
85°	194.7	183.7	166.2	175.3	174.0
87.5°	64.0	73.1	77.0	69.2	65.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)