

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-A-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 (P23761)
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-A-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

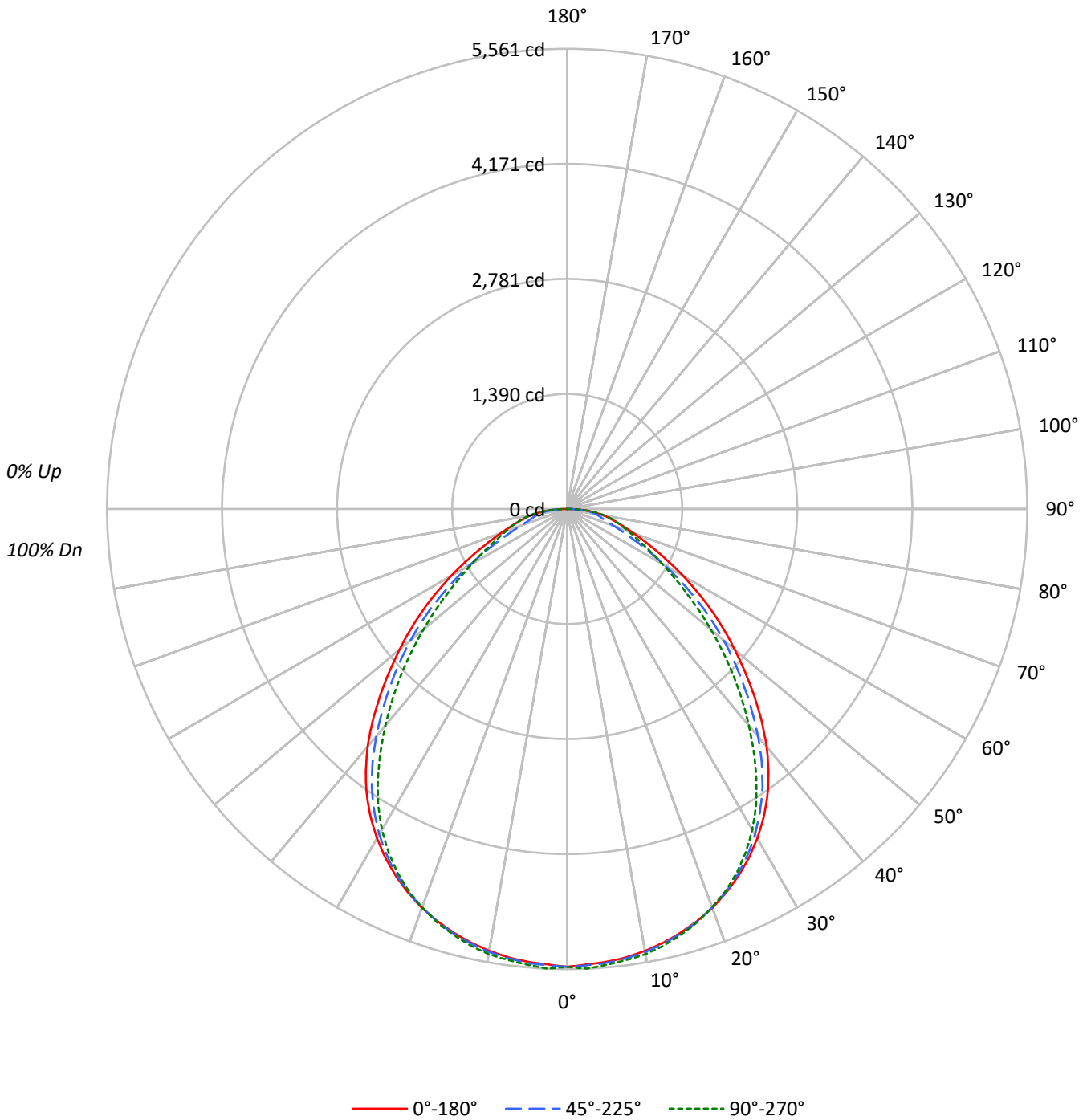
Lumens per Lamp: N/A
Luminaire Lumens: 12712.0 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7446	7446	7446
5°	7419	7436	7466
10°	7409	7426	7463
15°	7384	7399	7416
20°	7345	7340	7335
25°	7266	7241	7200
30°	7140	7054	6951
35°	6933	6758	6550
40°	6588	6305	6003
45°	6086	5746	5398
50°	5532	5174	4748
55°	4974	4480	4105
60°	4353	3661	3562
65°	3753	2879	3215
70°	3346	2349	3098
75°	3205	2294	3238
80°	3467	2713	3608
85°	3892	3267	3930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.5	4.1
10°-20°	1501.0	11.8
20°-30°	2245.3	17.7
30°-40°	2561.7	20.2
40°-50°	2331.9	18.3
50°-60°	1712.3	13.5
60°-70°	1011.0	8.0
70°-80°	579.4	4.6
80°-90°	245.0	1.9
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°	4270.7	33.6
0°-40°	6832.5	53.7
0°-60°	10876.6	85.6
0°-90°	12712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5534	5534	5534	5534	5534	
5°	5493	5528	5506	5528	5528	522
15°	5301	5330	5312	5330	5324	1496
25°	4894	4912	4877	4875	4850	2253
35°	4221	4200	4115	4044	3988	2630
45°	3198	3180	3020	2884	2837	2465
55°	2121	2023	1910	1771	1750	1896
65°	1179	1029	904	967	1010	1186
75°	617	529	441	575	623	665
85°	252	233	212	250	255	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5533.7	5533.7	5533.7	5533.7	5533.7
2.5°	5508.2	5540.0	5520.0	5541.9	5560.6
5°	5493.2	5527.5	5505.7	5527.5	5528.1
7.5°	5465.7	5497.6	5476.3	5500.0	5497.6
10°	5422.7	5454.5	5435.1	5460.7	5462.6
12.5°	5367.7	5398.3	5378.4	5407.7	5402.7
15°	5301.0	5330.3	5311.6	5330.3	5324.1
17.5°	5222.3	5249.2	5224.8	5245.4	5234.8
20°	5130.0	5152.4	5126.2	5145.6	5122.5
22.5°	5019.5	5039.5	5012.0	5022.6	4998.9
25°	4894.1	4911.5	4877.2	4875.3	4849.8
27.5°	4754.3	4763.6	4719.9	4705.0	4675.6
30°	4595.8	4598.2	4540.2	4512.1	4474.1
32.5°	4417.9	4411.6	4337.4	4295.6	4248.8
35°	4220.7	4200.1	4114.6	4044.1	3987.9
37.5°	3997.9	3965.4	3863.1	3758.9	3705.2
40°	3750.7	3712.7	3589.7	3460.5	3417.5
42.5°	3481.8	3449.3	3304.5	3169.7	3127.3
45°	3198.4	3179.7	3019.9	2884.5	2837.1
47.5°	2915.1	2901.4	2745.3	2607.4	2550.0
50°	2643.0	2613.0	2472.0	2321.0	2268.5
52.5°	2379.0	2317.8	2193.7	2038.9	2000.2
55°	2120.6	2022.7	1909.7	1771.1	1749.9
57.5°	1864.8	1738.1	1628.2	1524.6	1524.0
60°	1617.6	1472.8	1360.5	1306.2	1323.7
62.5°	1386.1	1237.6	1115.9	1119.6	1151.4
65°	1178.9	1029.1	904.3	967.3	1009.8
67.5°	1001.0	858.1	731.4	848.8	889.3
70°	850.6	721.4	597.2	743.9	787.6
72.5°	723.9	615.3	503.6	656.5	700.8
75°	616.6	528.6	441.2	575.4	622.8
77.5°	529.2	451.2	395.7	498.0	547.3
80°	447.5	378.8	350.1	423.1	465.6
82.5°	354.5	307.0	290.2	343.9	365.7
85°	252.1	232.8	211.6	249.6	254.6
87.5°	138.5	143.5	118.6	143.5	144.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)