

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-CL-UNV-L740-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 (P23762)
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-CL-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

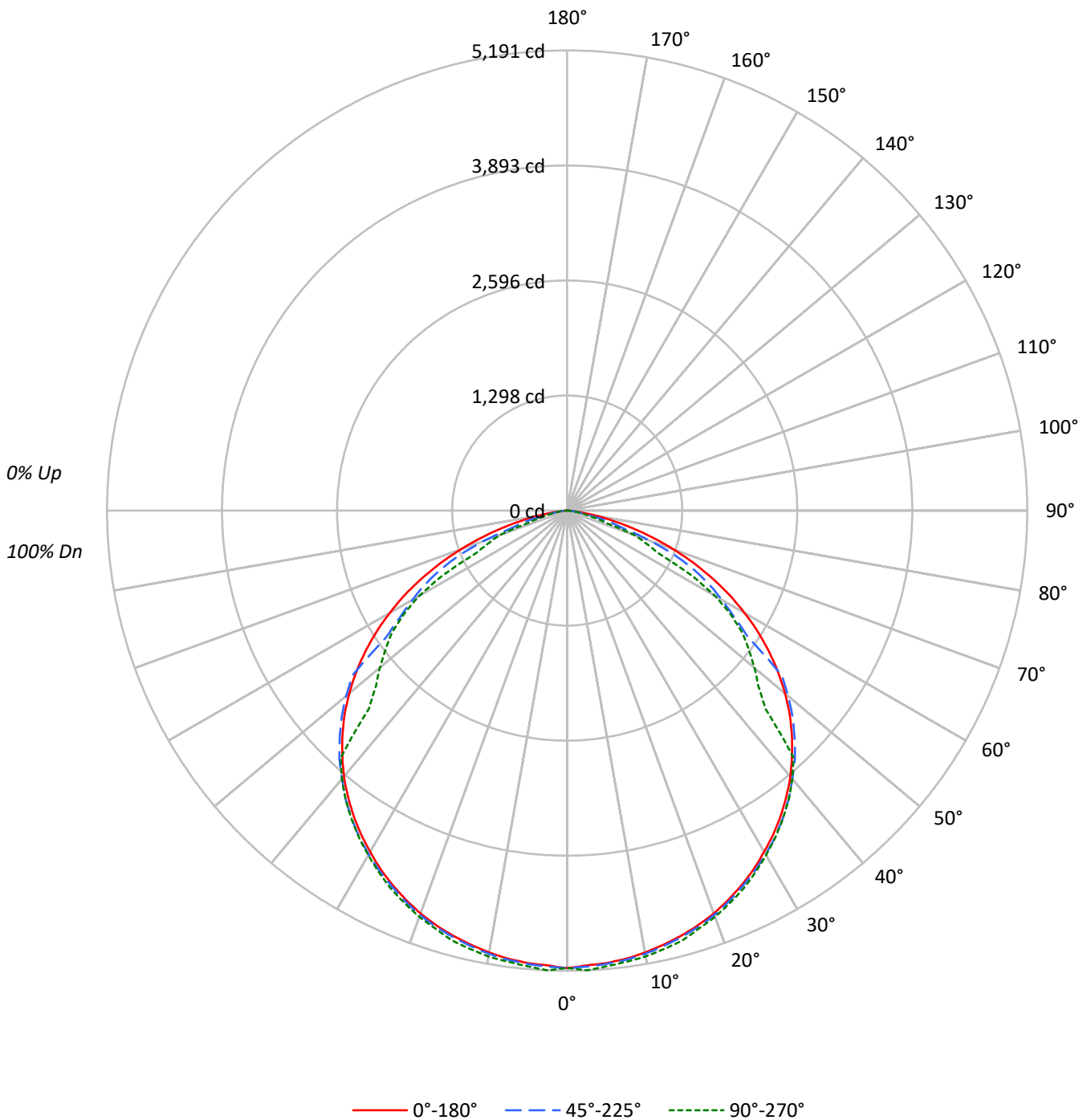
Lumens per Lamp: N/A
Luminaire Lumens: 13951.0 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38					36				
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34					32				
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30					29				
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6943	6943	6943
5°	6918	6933	6967
10°	6917	6937	6977
15°	6917	6938	6994
20°	6926	6952	6984
25°	6918	6944	6986
30°	6905	6955	6971
35°	6901	6964	6969
40°	6880	6940	6940
45°	6821	6903	6015
50°	6715	6817	5771
55°	6525	5835	5669
60°	6219	5424	5179
65°	5751	5035	3587
70°	5008	3918	3196
75°	3956	2629	1718
80°	2546	1256	1071
85°	1048	766	844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.5	3.5
10°-20°	1410.9	10.1
20°-30°	2163.2	15.5
30°-40°	2651.3	19.0
40°-50°	2725.8	19.5
50°-60°	2326.3	16.7
60°-70°	1538.0	11.0
70°-80°	569.8	4.1
80°-90°	76.2	0.5
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°	4063.6	29.1
0°-40°	6715.0	48.1
0°-60°	11767.0	84.3
0°-90°	13951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5160	5160	5160	5160	5160	
5°	5122	5158	5133	5154	5158	487
15°	4966	4996	4981	5018	5021	1403
25°	4660	4684	4677	4719	4706	2148
35°	4202	4230	4240	4266	4243	2628
45°	3585	3620	3628	3622	3161	2762
55°	2782	2832	2488	2415	2416	2482
65°	1806	1822	1582	1301	1127	1781
75°	761	667	506	340	330	816
85°	68	48	50	54	55	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5160.4	5160.4	5160.4	5160.4	5160.4
2.5°	5135.3	5167.3	5148.5	5172.4	5190.6
5°	5122.1	5157.9	5133.4	5153.5	5158.5
7.5°	5099.5	5132.8	5110.2	5136.5	5132.8
10°	5063.0	5093.2	5077.5	5105.1	5107.0
12.5°	5016.5	5046.7	5032.2	5066.2	5065.5
15°	4965.6	4995.8	4980.7	5018.4	5020.9
17.5°	4906.0	4933.6	4922.3	4956.8	4943.0
20°	4836.8	4860.7	4855.1	4887.7	4877.7
22.5°	4752.0	4776.5	4770.9	4808.6	4793.5
25°	4659.6	4684.2	4677.2	4719.3	4705.5
27.5°	4559.7	4583.0	4582.4	4621.9	4600.6
30°	4444.1	4474.9	4476.8	4512.0	4486.9
32.5°	4329.8	4358.7	4366.8	4392.6	4371.2
35°	4201.6	4230.5	4239.9	4266.3	4243.1
37.5°	4063.4	4087.9	4104.8	4124.3	4106.1
40°	3917.0	3939.0	3951.5	3975.4	3951.5
42.5°	3753.6	3785.0	3802.6	3819.6	3780.6
45°	3584.6	3620.4	3627.9	3622.3	3161.1
47.5°	3405.5	3444.5	3448.9	3007.8	2923.0
50°	3208.2	3257.2	3256.6	2779.7	2757.1
52.5°	3002.8	3049.9	3048.0	2601.3	2586.2
55°	2781.6	2832.5	2487.5	2415.3	2416.5
57.5°	2556.0	2592.5	2231.8	2234.9	2193.5
60°	2311.0	2345.5	2015.7	1996.2	1924.6
62.5°	2065.3	2079.8	1806.4	1711.6	1575.2
65°	1806.4	1821.5	1581.5	1300.6	1126.6
67.5°	1540.6	1555.7	1312.6	967.6	954.4
70°	1273.0	1149.8	995.9	806.1	812.4
72.5°	1009.1	883.4	650.9	624.6	451.1
75°	760.9	666.7	505.8	339.9	330.5
77.5°	529.7	459.3	270.8	231.9	216.8
80°	328.6	230.6	162.1	143.9	138.2
82.5°	166.5	132.6	88.0	88.0	88.0
85°	67.9	48.4	49.6	54.0	54.7
87.5°	14.5	19.5	23.9	24.5	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)