

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-CL-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 (P23762)
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-CL-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

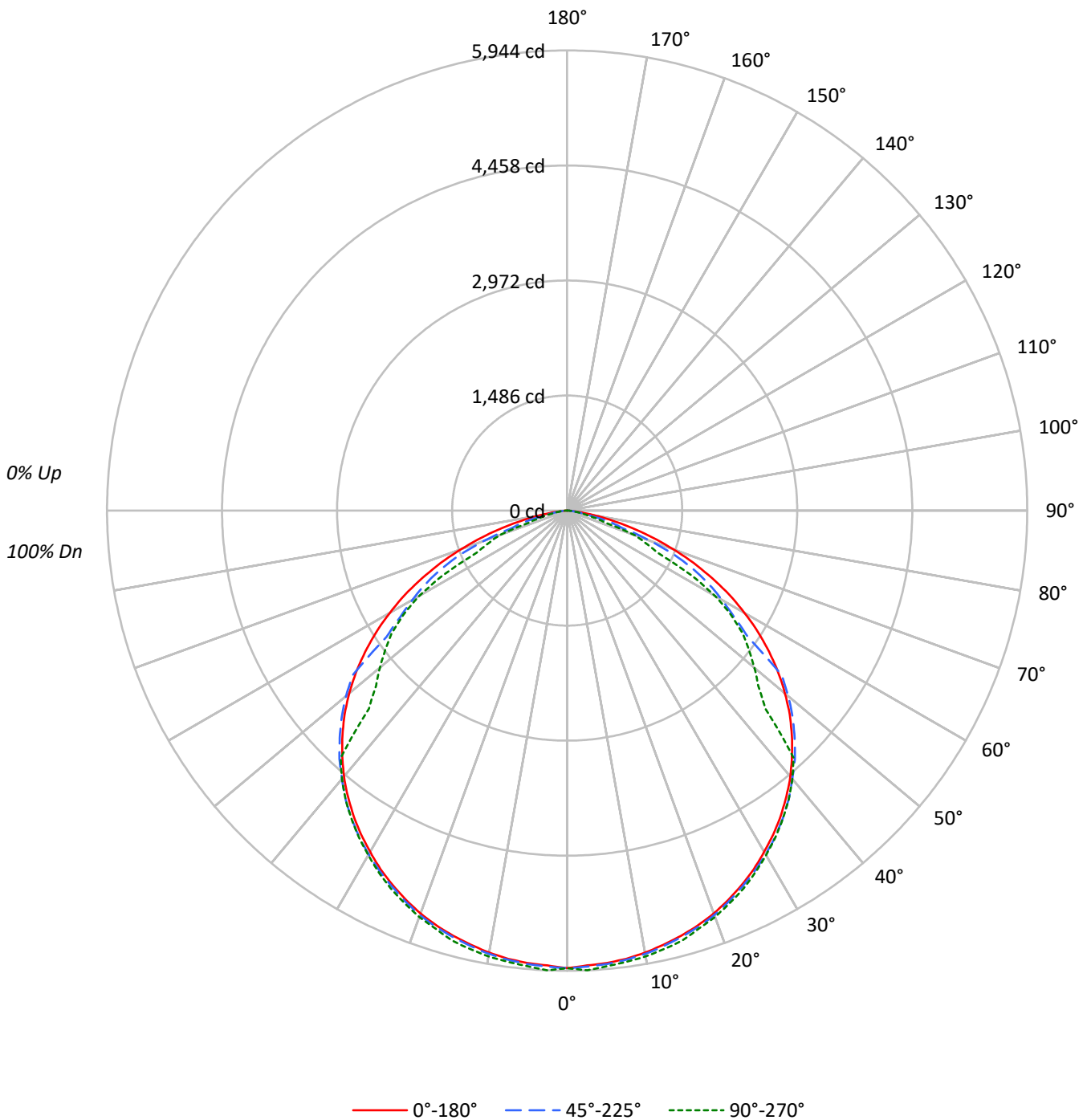
Lumens per Lamp: N/A
Luminaire Lumens: 15976.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7951	7951	7951
5°	7922	7940	7979
10°	7921	7944	7990
15°	7921	7945	8009
20°	7931	7961	7998
25°	7922	7952	8000
30°	7907	7965	7983
35°	7903	7975	7981
40°	7878	7948	7948
45°	7811	7905	6888
50°	7690	7806	6609
55°	7472	6682	6492
60°	7121	6211	5931
65°	6586	5766	4107
70°	5735	4486	3660
75°	4530	3011	1968
80°	2916	1438	1227
85°	1200	877	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.6	3.5
10°-20°	1615.7	10.1
20°-30°	2477.2	15.5
30°-40°	3036.2	19.0
40°-50°	3121.4	19.5
50°-60°	2664.0	16.7
60°-70°	1761.2	11.0
70°-80°	652.5	4.1
80°-90°	87.2	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°	4653.5	29.1
0°-40°	7689.7	48.1
0°-60°	13475.0	84.3
0°-90°	15976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5910	5910	5910	5910	5910	
5°	5866	5907	5878	5902	5907	558
15°	5686	5721	5704	5747	5750	1606
25°	5336	5364	5356	5404	5388	2460
35°	4812	4845	4855	4886	4859	3010
45°	4105	4146	4154	4148	3620	3163
55°	3185	3244	2849	2766	2767	2842
65°	2069	2086	1811	1489	1290	2040
75°	871	763	579	389	378	935
85°	78	55	57	62	63	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5909.5	5909.5	5909.5	5909.5	5909.5
2.5°	5880.7	5917.4	5895.8	5923.1	5944.0
5°	5865.6	5906.6	5878.5	5901.5	5907.3
7.5°	5839.7	5877.8	5851.9	5882.1	5877.8
10°	5797.9	5832.5	5814.5	5846.1	5848.3
12.5°	5744.7	5779.2	5762.7	5801.5	5800.8
15°	5686.4	5720.9	5703.7	5746.8	5749.7
17.5°	5618.1	5649.7	5636.8	5676.3	5660.5
20°	5538.9	5566.2	5559.8	5597.2	5585.7
22.5°	5441.8	5469.8	5463.4	5506.5	5489.3
25°	5336.0	5364.1	5356.1	5404.4	5388.5
27.5°	5221.6	5248.2	5247.5	5292.8	5268.4
30°	5089.2	5124.5	5126.6	5166.9	5138.1
32.5°	4958.2	4991.3	5000.7	5030.2	5005.7
35°	4811.5	4844.6	4855.4	4885.6	4859.0
37.5°	4653.2	4681.2	4700.7	4723.0	4702.1
40°	4485.5	4510.7	4525.1	4552.4	4525.1
42.5°	4298.4	4334.4	4354.6	4374.0	4329.4
45°	4104.9	4145.9	4154.5	4148.1	3619.9
47.5°	3899.8	3944.4	3949.5	3444.4	3347.2
50°	3673.9	3730.0	3729.3	3183.2	3157.3
52.5°	3438.6	3492.6	3490.4	2978.8	2961.6
55°	3185.3	3243.6	2848.6	2765.9	2767.3
57.5°	2927.0	2968.8	2555.8	2559.4	2511.9
60°	2646.4	2686.0	2308.2	2285.9	2203.9
62.5°	2365.1	2381.6	2068.6	1960.0	1803.9
65°	2068.6	2085.9	1811.0	1489.4	1290.1
67.5°	1764.3	1781.5	1503.1	1108.1	1093.0
70°	1457.8	1316.7	1140.4	923.2	930.3
72.5°	1155.6	1011.7	745.4	715.2	516.6
75°	871.3	763.4	579.2	389.3	378.5
77.5°	606.6	526.0	310.1	265.5	248.2
80°	376.3	264.1	185.6	164.8	158.3
82.5°	190.7	151.8	100.7	100.7	100.7
85°	77.7	55.4	56.8	61.9	62.6
87.5°	16.5	22.3	27.3	28.1	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)