

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-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-LD5-18SE-W-A-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

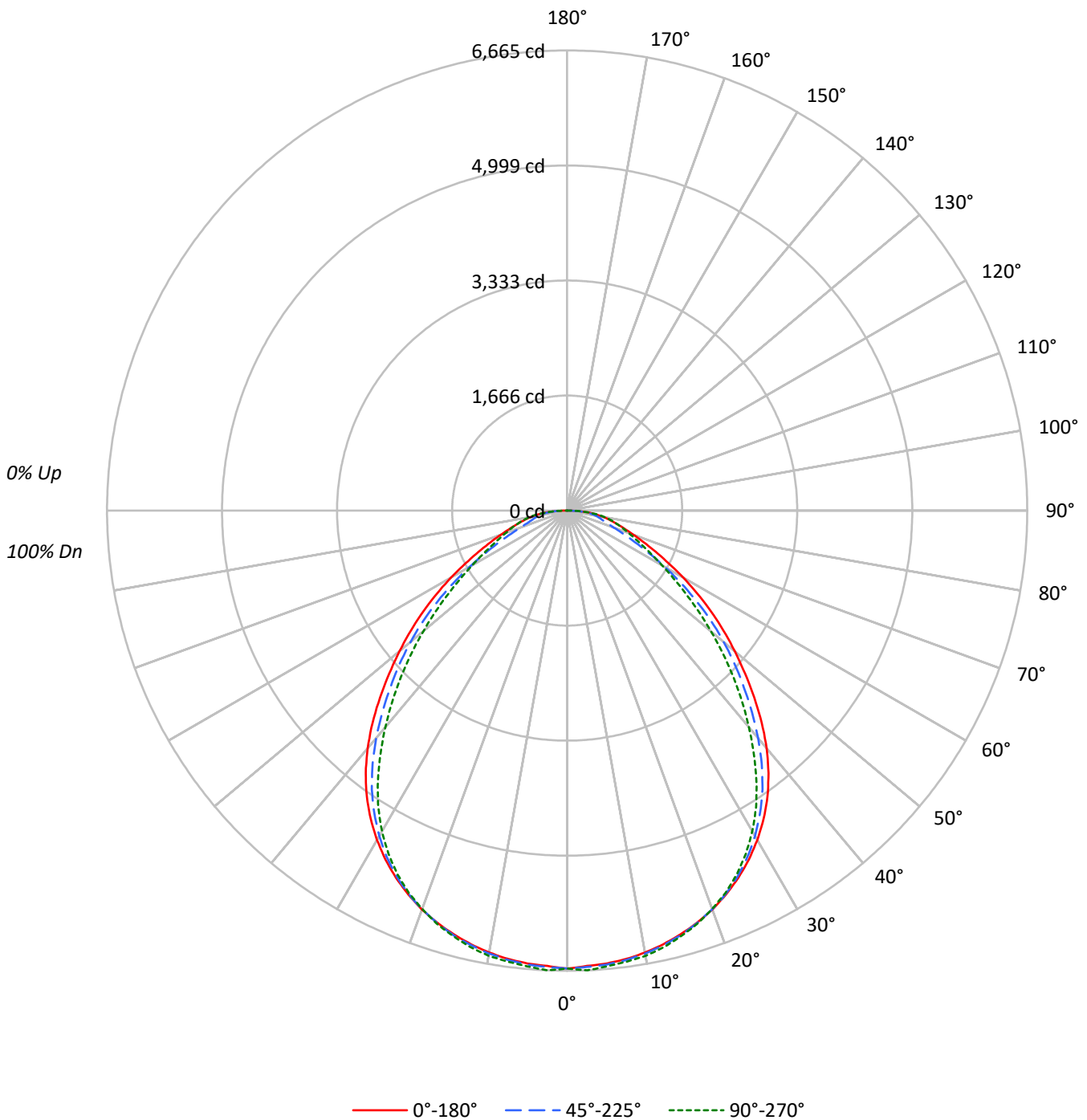
Lumens per Lamp: N/A
Luminaire Lumens: 15237.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8924	8924	8924
5°	8893	8913	8950
10°	8880	8901	8946
15°	8851	8868	8889
20°	8804	8798	8791
25°	8709	8679	8630
30°	8558	8455	8332
35°	8310	8101	7851
40°	7896	7557	7195
45°	7295	6888	6471
50°	6631	6202	5692
55°	5963	5370	4920
60°	5218	4388	4270
65°	4499	3451	3853
70°	4011	2816	3714
75°	3842	2750	3881
80°	4155	3252	4324
85°	4665	3915	4712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.6	4.1
10°-20°	1799.1	11.8
20°-30°	2691.3	17.7
30°-40°	3070.5	20.2
40°-50°	2795.1	18.3
50°-60°	2052.4	13.5
60°-70°	1211.8	8.0
70°-80°	694.5	4.6
80°-90°	293.6	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°	5119.0	33.6
0°-40°	8189.6	53.7
0°-60°	13037.0	85.6
0°-90°	15237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6633	6633	6633	6633	6633	
5°	6584	6625	6599	6625	6626	626
15°	6354	6389	6367	6389	6382	1793
25°	5866	5887	5846	5844	5813	2700
35°	5059	5034	4932	4847	4780	3152
45°	3834	3811	3620	3458	3401	2954
55°	2542	2424	2289	2123	2098	2273
65°	1413	1234	1084	1160	1210	1422
75°	739	634	529	690	746	797
85°	302	279	254	299	305	316
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6632.9	6632.9	6632.9	6632.9	6632.9
2.5°	6602.3	6640.4	6616.5	6642.6	6665.1
5°	6584.3	6625.4	6599.3	6625.4	6626.2
7.5°	6551.4	6589.5	6564.1	6592.5	6589.5
10°	6499.8	6537.9	6514.7	6545.4	6547.6
12.5°	6433.9	6470.6	6446.7	6481.8	6475.8
15°	6353.9	6389.1	6366.6	6389.1	6381.6
17.5°	6259.6	6291.8	6262.6	6287.3	6274.6
20°	6148.9	6175.9	6144.4	6167.6	6140.0
22.5°	6016.5	6040.5	6007.6	6020.3	5991.8
25°	5866.2	5887.1	5846.0	5843.7	5813.1
27.5°	5698.6	5709.8	5657.5	5639.5	5604.4
30°	5508.6	5511.6	5442.0	5408.4	5362.7
32.5°	5295.4	5287.9	5198.9	5148.8	5092.7
35°	5059.0	5034.3	4931.9	4847.3	4780.0
37.5°	4792.0	4753.1	4630.4	4505.5	4441.1
40°	4495.8	4450.1	4302.8	4147.9	4096.3
42.5°	4173.3	4134.4	3960.9	3799.3	3748.5
45°	3833.7	3811.3	3619.8	3457.5	3400.6
47.5°	3494.1	3477.7	3290.7	3125.3	3056.5
50°	3168.0	3132.1	2963.0	2782.0	2719.1
52.5°	2851.6	2778.2	2629.4	2443.9	2397.5
55°	2541.9	2424.4	2289.0	2123.0	2097.5
57.5°	2235.2	2083.3	1951.7	1827.5	1826.7
60°	1938.9	1765.4	1630.7	1565.7	1586.6
62.5°	1661.4	1483.4	1337.5	1342.0	1380.1
65°	1413.1	1233.5	1083.9	1159.5	1210.3
67.5°	1199.9	1028.6	876.7	1017.3	1066.0
70°	1019.6	864.7	715.9	891.7	944.0
72.5°	867.7	737.6	603.7	786.9	840.1
75°	739.1	633.6	528.9	689.7	746.5
77.5°	634.3	540.8	474.3	596.9	656.0
80°	536.3	454.1	419.7	507.2	558.0
82.5°	424.9	368.0	347.8	412.2	438.4
85°	302.2	279.0	253.6	299.2	305.2
87.5°	166.1	172.1	142.1	172.1	172.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)