

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

Luminaire Equipment: Sample No.    Condition    Description

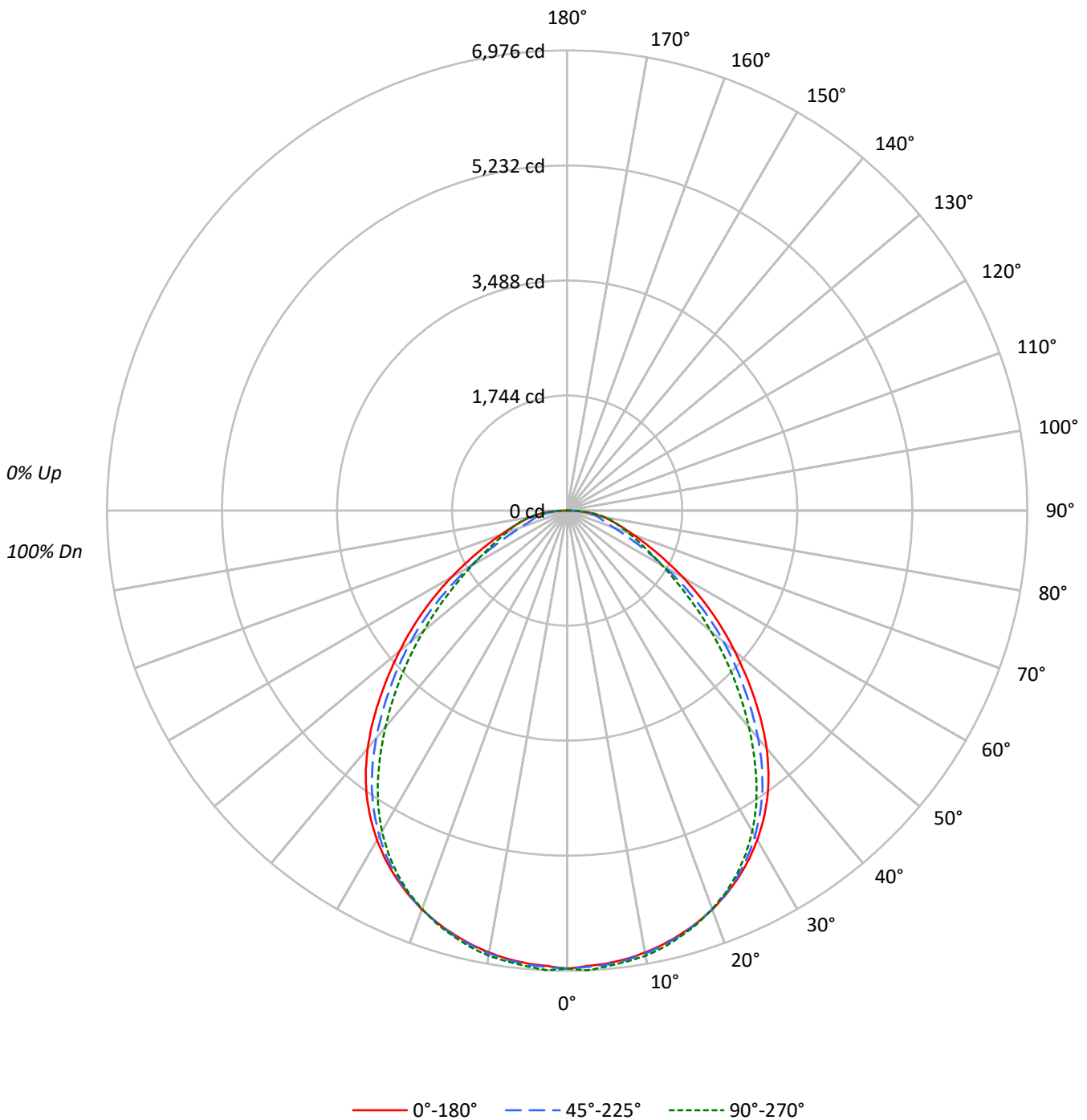
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15948.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	9341	9341	9341
5°	9308	9329	9367
10°	9295	9316	9363
15°	9264	9282	9304
20°	9215	9208	9202
25°	9115	9084	9033
30°	8958	8850	8721
35°	8697	8479	8218
40°	8265	7910	7530
45°	7635	7209	6773
50°	6941	6492	5957
55°	6241	5620	5150
60°	5461	4593	4469
65°	4709	3612	4033
70°	4198	2948	3887
75°	4022	2877	4062
80°	4350	3403	4526
85°	4883	4097	4931



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	658.0	4.1
10°-20°	1883.1	11.8
20°-30°	2816.9	17.7
30°-40°	3213.8	20.2
40°-50°	2925.5	18.3
50°-60°	2148.1	13.5
60°-70°	1268.4	8.0
70°-80°	726.9	4.6
80°-90°	307.3	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°	5357.9	33.6
0°-40°	8571.8	53.7
0°-60°	13645.4	85.6
0°-90°	15948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6942	6942	6942	6942	6942	
5°	6892	6935	6907	6935	6935	655
15°	6650	6687	6664	6687	6679	1877
25°	6140	6162	6119	6116	6084	2826
35°	5295	5269	5162	5074	5003	3299
45°	4013	3989	3789	3619	3559	3092
55°	2660	2538	2396	2222	2195	2379
65°	1479	1291	1134	1214	1267	1488
75°	774	663	554	722	781	834
85°	316	292	265	313	319	331
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6942.4	6942.4	6942.4	6942.4	6942.4
2.5°	6910.3	6950.3	6925.2	6952.6	6976.1
5°	6891.5	6934.6	6907.2	6934.6	6935.4
7.5°	6857.1	6897.0	6870.4	6900.2	6897.0
10°	6803.1	6843.0	6818.7	6850.8	6853.2
12.5°	6734.2	6772.5	6747.5	6784.3	6778.0
15°	6650.4	6687.2	6663.7	6687.2	6679.4
17.5°	6551.7	6585.4	6554.9	6580.7	6567.4
20°	6435.9	6464.0	6431.2	6455.4	6426.5
22.5°	6297.3	6322.3	6287.9	6301.2	6271.4
25°	6139.9	6161.8	6118.8	6116.4	6084.3
27.5°	5964.5	5976.3	5921.5	5902.7	5865.9
30°	5765.7	5768.8	5696.0	5660.7	5613.0
32.5°	5542.5	5534.7	5441.5	5389.1	5330.3
35°	5295.1	5269.3	5162.0	5073.5	5003.1
37.5°	5015.6	4974.9	4846.5	4715.7	4648.4
40°	4705.5	4657.8	4503.5	4341.5	4287.4
42.5°	4368.1	4327.4	4145.7	3976.6	3923.4
45°	4012.6	3989.1	3788.7	3618.8	3559.3
47.5°	3657.2	3639.9	3444.2	3271.2	3199.1
50°	3315.8	3278.2	3101.3	2911.8	2846.0
52.5°	2984.6	2907.9	2752.1	2557.9	2509.4
55°	2660.5	2537.5	2395.8	2222.0	2195.4
57.5°	2339.5	2180.5	2042.7	1912.8	1912.0
60°	2029.4	1847.8	1706.8	1638.7	1660.6
62.5°	1738.9	1552.6	1399.9	1404.6	1444.5
65°	1479.0	1291.1	1134.5	1213.6	1266.8
67.5°	1255.9	1076.6	917.6	1064.8	1115.7
70°	1067.2	905.1	749.3	933.3	988.1
72.5°	908.2	772.0	631.8	823.7	879.3
75°	773.6	663.2	553.5	721.9	781.4
77.5°	663.9	566.1	496.4	624.8	686.6
80°	561.4	475.3	439.2	530.8	584.1
82.5°	444.7	385.2	364.1	431.4	458.8
85°	316.3	292.0	265.4	313.2	319.4
87.5°	173.8	180.1	148.8	180.1	180.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)