

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-LD5-15HE-W-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 (P23760)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-W-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

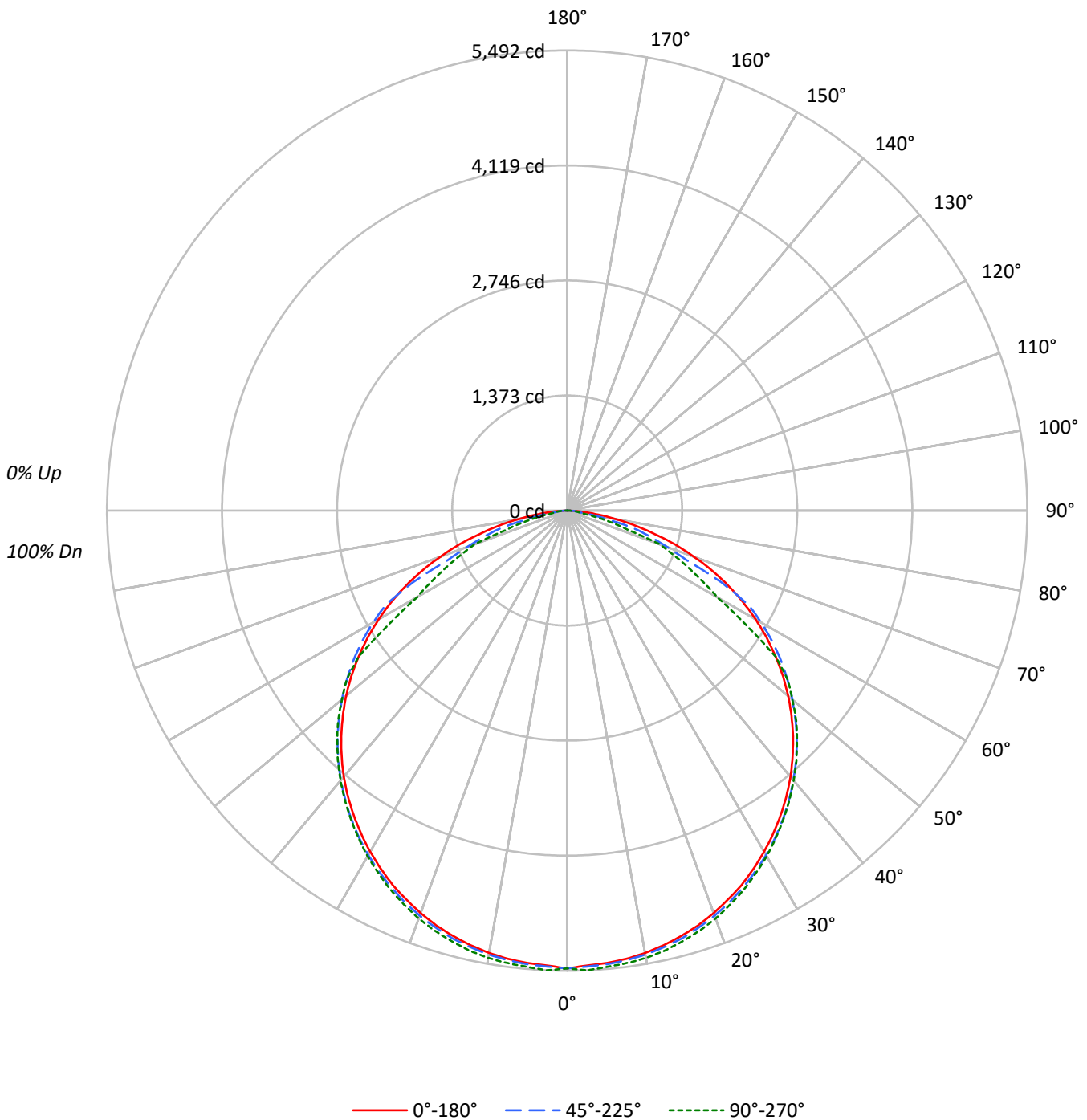
Lumens per Lamp: N/A  
Luminaire Lumens: 15773.0 lumens  
Efficiency: N/A  
Efficacy: 171.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.8  
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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7351	7351	7351
5°	7321	7341	7383
10°	7325	7351	7406
15°	7323	7362	7413
20°	7319	7366	7418
25°	7317	7369	7410
30°	7304	7375	7403
35°	7295	7379	7388
40°	7282	7378	7390
45°	7254	7375	7384
50°	7211	7344	7342
55°	7127	7305	7123
60°	6994	7197	5574
65°	6761	6477	5022
70°	6334	4984	4628
75°	5608	4345	2884
80°	4619	2558	1289
85°	3044	1567	1689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.5	3.3
10°-20°	1495.8	9.5
20°-30°	2293.3	14.5
30°-40°	2812.5	17.8
40°-50°	2986.4	18.9
50°-60°	2727.7	17.3
60°-70°	1899.6	12.0
70°-80°	886.0	5.6
80°-90°	153.3	1.0
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°	4307.6	27.3
0°-40°	7120.1	45.1
0°-60°	12834.2	81.4
0°-90°	15773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15773.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5464	5464	5464	5464	5464	
5°	5420	5458	5436	5462	5466	516
15°	5257	5294	5286	5318	5322	1485
25°	4928	4972	4964	5000	4991	2271
35°	4441	4492	4492	4522	4498	2779
45°	3812	3870	3876	3901	3880	2940
55°	3038	3099	3114	3119	3037	2713
65°	2124	2189	2034	1618	1577	2095
75°	1079	1147	836	579	555	1153
85°	197	130	102	109	109	255
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5463.6	5463.6	5463.6	5463.6	5463.6
2.5°	5434.8	5469.5	5446.6	5471.5	5492.4
5°	5420.4	5458.4	5435.5	5461.7	5466.2
7.5°	5396.8	5432.8	5411.9	5440.7	5447.9
10°	5361.4	5396.8	5380.4	5414.5	5421.0
12.5°	5313.6	5349.6	5337.2	5374.5	5379.1
15°	5257.3	5294.0	5285.5	5317.6	5322.1
17.5°	5191.1	5229.1	5219.3	5253.4	5256.6
20°	5111.9	5153.1	5144.6	5184.6	5180.6
22.5°	5022.8	5066.7	5060.1	5100.1	5088.3
25°	4928.5	4971.7	4963.8	5000.5	4991.3
27.5°	4817.8	4865.6	4858.4	4893.7	4879.3
30°	4701.2	4749.6	4747.0	4779.1	4764.7
32.5°	4575.4	4627.1	4624.5	4656.0	4633.7
35°	4441.1	4492.2	4492.2	4522.3	4498.1
37.5°	4299.0	4350.7	4351.4	4380.2	4357.3
40°	4145.7	4197.4	4200.7	4228.2	4207.3
42.5°	3984.6	4040.9	4043.5	4068.4	4048.8
45°	3812.3	3869.9	3875.8	3900.7	3880.4
47.5°	3632.2	3690.5	3695.7	3722.5	3708.1
50°	3444.8	3501.1	3508.4	3530.6	3507.7
52.5°	3247.0	3304.6	3314.5	3328.2	3317.7
55°	3038.0	3099.0	3114.0	3119.3	3036.7
57.5°	2821.9	2884.1	2898.5	2778.0	2512.7
60°	2599.2	2660.7	2674.5	2259.9	2071.2
62.5°	2367.3	2427.5	2442.6	1872.7	1812.5
65°	2123.6	2189.1	2034.5	1617.9	1577.3
67.5°	1873.4	1940.9	1538.7	1386.7	1362.5
70°	1610.1	1678.2	1266.8	1182.3	1176.4
72.5°	1357.2	1407.7	1039.5	896.1	754.6
75°	1078.8	1147.0	835.8	579.0	554.8
77.5°	836.5	723.2	504.4	424.5	334.7
80°	596.1	483.4	330.1	176.2	166.4
82.5°	378.0	315.7	129.7	133.0	138.9
85°	197.2	129.7	101.5	108.7	109.4
87.5°	63.5	55.7	60.9	60.3	59.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)