

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-WG-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-15HE-W-WG-UNV-L740-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

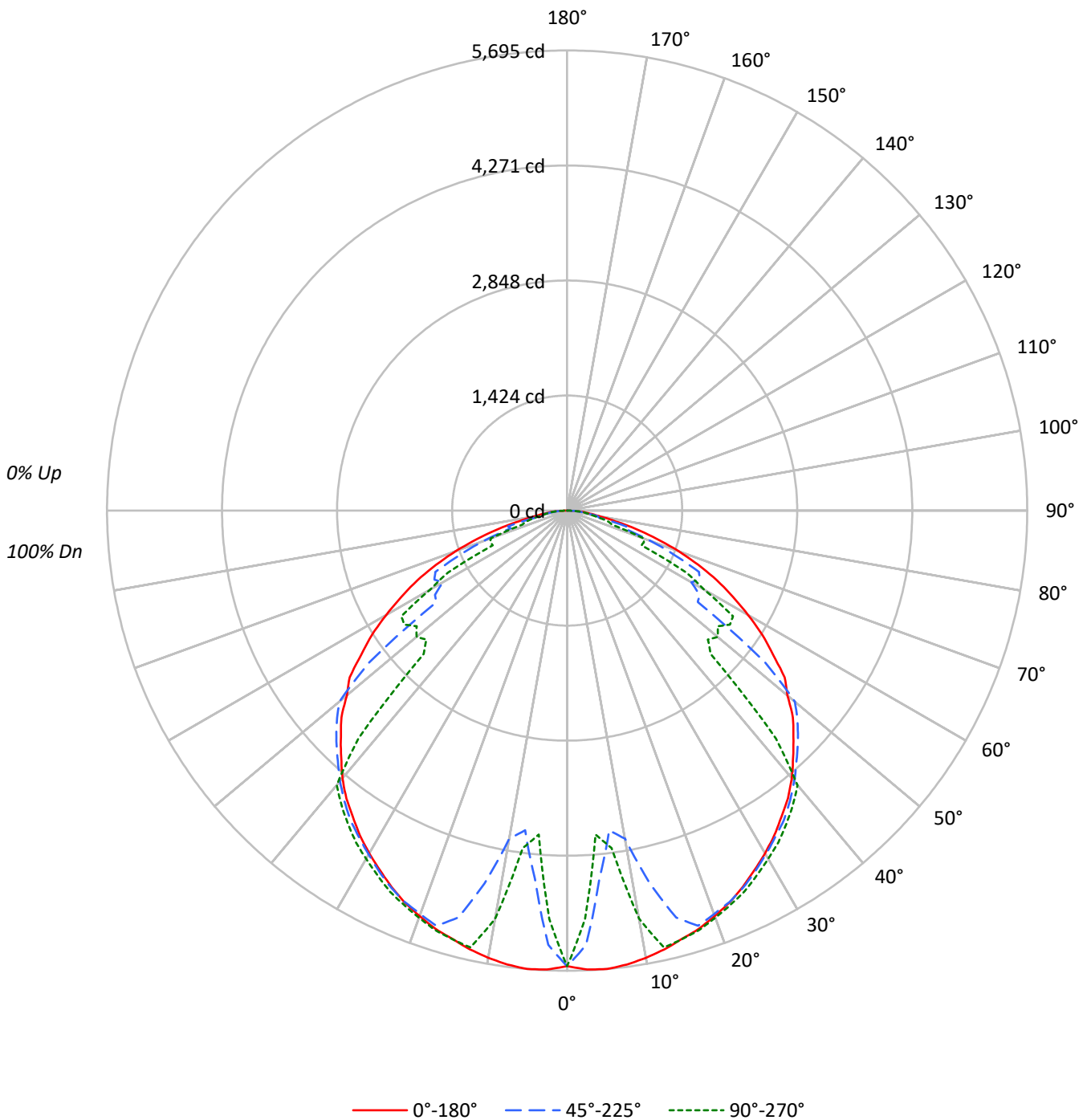
Lumens per Lamp: N/A  
Luminaire Lumens: 14937.0 lumens  
Efficiency: N/A  
Efficacy: 162.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: HBLED-LD5-15HE-W-WG-UNV-L740-ED1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-WG-UNV-L740-ED1-U

**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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	7586	7586	7586
5°	7692	6179	5434
10°	7678	5635	7009
15°	7644	7263	7651
20°	7644	7610	7677
25°	7631	7648	7718
30°	7609	7634	7732
35°	7597	7681	7771
40°	7598	7680	7791
45°	7538	7686	4776
50°	7453	7701	5090
55°	7295	4631	5769
60°	6959	4773	5283
65°	6521	5731	3232
70°	5758	4342	3962
75°	4588	3946	2748
80°	3161	2852	2361
85°	3029	2634	2498



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-WG-UNV-L740-ED1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.9	3.0
10°-20°	1412.5	9.5
20°-30°	2323.8	15.6
30°-40°	2921.9	19.6
40°-50°	2865.7	19.2
50°-60°	2374.4	15.9
60°-70°	1674.7	11.2
70°-80°	730.6	4.9
80°-90°	182.5	1.2
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°	4187.2	28.0
0°-40°	7109.1	47.6
0°-60°	12349.1	82.7
0°-90°	14937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14937.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5638	5638	5638	5638	5638	
5°	5695	5300	4575	4148	4024	541
15°	5488	3811	5214	5510	5493	1552
25°	5140	4703	5152	5186	5199	2369
35°	4625	4622	4676	4707	4731	2898
45°	3962	3974	4039	3577	2510	3058
55°	3110	3212	1974	2244	2459	2783
65°	2048	2169	1800	1385	1015	2014
75°	882	865	759	496	529	946
85°	196	175	171	163	162	203
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-WG-UNV-L740-ED1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5638.2	5638.2	5638.2	5638.2	5638.2
2.5°	5684.8	5566.8	5379.3	5143.4	5059.8
5°	5694.9	5300.5	4575.0	4148.3	4023.6
7.5°	5665.9	4817.1	3988.5	4078.2	4210.3
10°	5620.0	4392.3	4124.7	4852.8	5129.9
12.5°	5561.4	4014.8	4725.4	5481.8	5537.1
15°	5487.9	3811.2	5214.2	5509.5	5492.6
17.5°	5425.9	3930.5	5389.5	5454.2	5442.0
20°	5338.9	4168.5	5314.6	5366.5	5361.8
22.5°	5251.2	4450.3	5243.8	5280.9	5280.9
25°	5140.0	4703.1	5151.5	5185.9	5198.7
27.5°	5018.0	4848.8	5036.2	5064.5	5087.4
30°	4897.3	4869.7	4913.5	4949.9	4976.9
32.5°	4769.9	4759.1	4793.5	4831.9	4866.3
35°	4624.9	4622.2	4676.2	4707.2	4730.8
37.5°	4488.7	4479.3	4529.2	4572.3	4590.5
40°	4325.6	4325.6	4372.8	4416.6	4435.5
42.5°	4139.5	4165.8	4202.2	4247.4	3825.3
45°	3961.5	3973.7	4039.1	3577.2	2510.0
47.5°	3790.3	3805.8	3867.8	2299.7	2362.4
50°	3560.4	3630.5	3679.0	2292.9	2431.8
52.5°	3392.5	3422.9	3088.5	2270.0	2348.2
55°	3110.0	3211.8	1974.0	2244.4	2459.4
57.5°	2868.7	2942.8	1941.0	2299.7	2433.1
60°	2586.2	2699.4	1773.8	2218.8	1963.2
62.5°	2315.2	2423.0	1852.0	1746.1	1662.5
65°	2048.2	2168.9	1800.1	1384.8	1015.3
67.5°	1755.6	1643.0	1436.0	975.5	1026.8
70°	1463.7	1147.5	1103.6	1090.8	1007.2
72.5°	1163.6	837.3	732.8	818.5	585.9
75°	882.5	865.0	759.1	496.2	528.6
77.5°	612.2	624.3	406.5	484.1	401.8
80°	407.9	353.3	368.1	308.8	304.7
82.5°	282.5	288.6	242.0	234.6	238.0
85°	196.2	174.6	170.6	163.2	161.8
87.5°	65.4	76.2	70.8	64.0	68.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)