

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-CLI-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 (P23766)
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-CLI-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

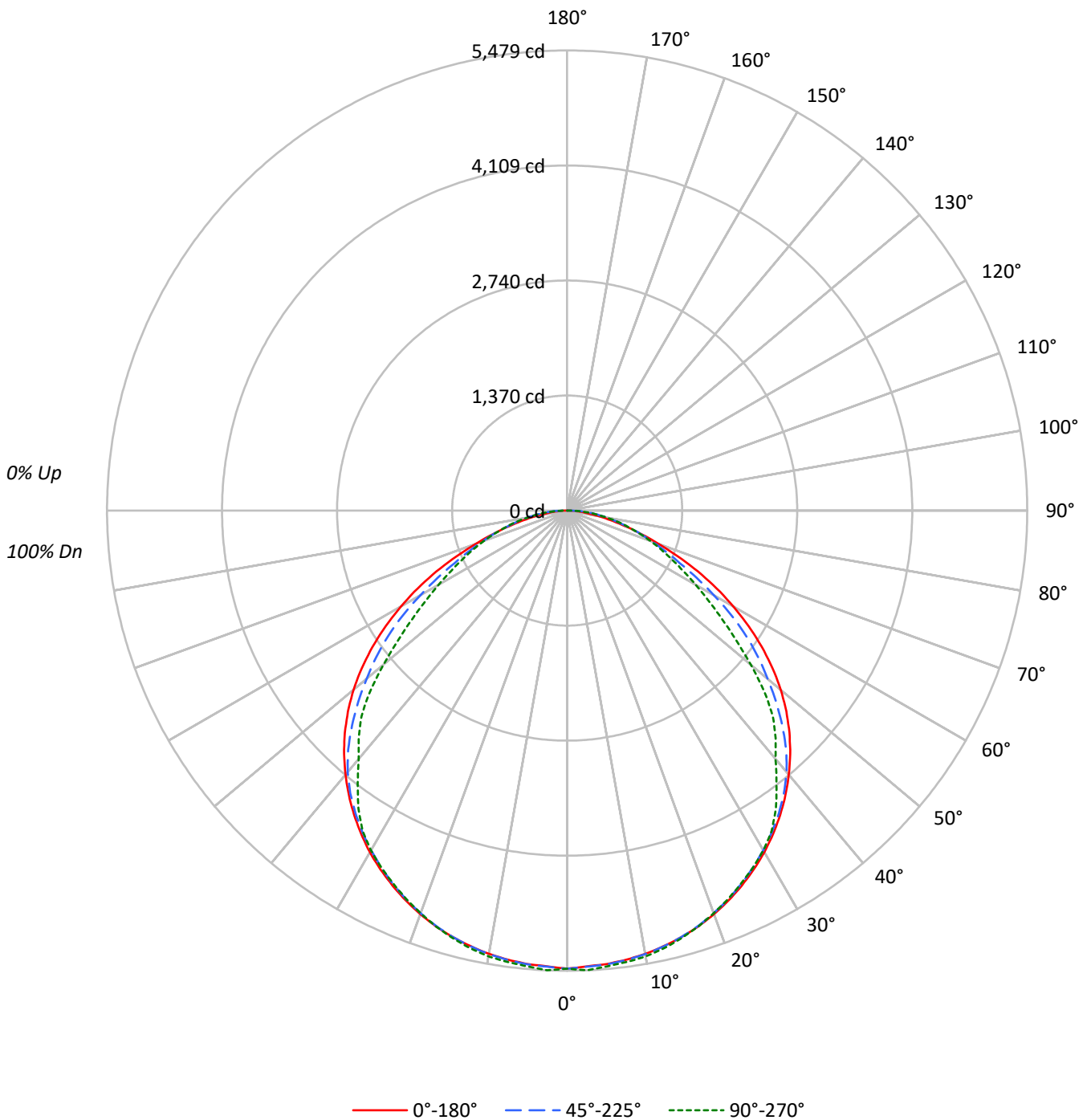
Lumens per Lamp: N/A
Luminaire Lumens: 14653.0 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-CLI-UNV-L740-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15HE-W-CLI-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	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7338	7338	7338
5°	7319	7324	7356
10°	7323	7326	7365
15°	7323	7323	7340
20°	7322	7305	7307
25°	7311	7283	7274
30°	7299	7255	7259
35°	7264	7219	7117
40°	7213	7139	6779
45°	7121	6893	6592
50°	6950	6526	5970
55°	6633	6104	5279
60°	6156	5446	4761
65°	5472	4715	4377
70°	4541	4214	4126
75°	3673	3856	3904
80°	2917	3688	3673
85°	2285	3963	3781



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.2	3.5
10°-20°	1487.7	10.2
20°-30°	2268.5	15.5
30°-40°	2744.6	18.7
40°-50°	2780.0	19.0
50°-60°	2297.8	15.7
60°-70°	1517.6	10.4
70°-80°	791.4	5.4
80°-90°	248.1	1.7
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°	4273.5	29.2
0°-40°	7018.1	47.9
0°-60°	12095.9	82.5
0°-90°	14653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5454	5454	5454	5454	5454	
5°	5419	5451	5422	5446	5447	515
15°	5258	5284	5257	5273	5269	1485
25°	4924	4944	4906	4918	4900	2271
35°	4423	4429	4395	4389	4333	2766
45°	3742	3733	3623	3510	3464	2882
55°	2828	2786	2602	2349	2250	2520
65°	1719	1669	1481	1385	1375	1698
75°	706	719	742	752	751	770
85°	148	190	257	255	245	180
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5453.9	5453.9	5453.9	5453.9	5453.9
2.5°	5431.0	5463.1	5436.3	5459.8	5478.8
5°	5418.6	5451.3	5422.5	5446.1	5446.7
7.5°	5394.3	5427.1	5397.6	5421.2	5420.5
10°	5359.6	5390.4	5362.3	5390.4	5390.4
12.5°	5312.5	5342.6	5315.1	5341.3	5337.4
15°	5257.5	5284.4	5256.9	5273.2	5269.3
17.5°	5192.7	5216.9	5186.1	5199.9	5192.0
20°	5113.5	5135.7	5101.7	5119.4	5103.0
22.5°	5024.4	5045.4	5010.7	5023.8	5005.4
25°	4924.3	4943.9	4905.9	4918.4	4900.0
27.5°	4816.2	4833.9	4791.3	4806.4	4792.0
30°	4697.7	4706.2	4669.6	4689.2	4672.2
32.5°	4565.5	4570.7	4538.6	4556.3	4527.5
35°	4422.7	4428.6	4395.2	4389.3	4333.0
37.5°	4270.2	4272.8	4241.4	4188.3	4095.4
40°	4106.5	4105.2	4064.6	3942.1	3859.7
42.5°	3931.7	3931.0	3859.7	3720.2	3673.1
45°	3742.5	3732.6	3622.6	3510.0	3464.2
47.5°	3539.5	3529.0	3375.2	3285.5	3181.3
50°	3320.2	3301.8	3117.8	2995.4	2852.0
52.5°	3083.8	3055.6	2868.4	2670.7	2535.1
55°	2827.8	2785.9	2601.9	2349.2	2250.3
57.5°	2561.3	2499.1	2320.4	2074.2	1993.7
60°	2287.6	2218.2	2023.8	1821.5	1769.1
62.5°	2006.1	1937.4	1739.0	1586.4	1557.6
65°	1718.7	1668.9	1481.0	1384.8	1374.9
67.5°	1424.0	1406.4	1263.0	1213.9	1209.9
70°	1154.3	1151.0	1071.1	1046.3	1048.9
72.5°	922.5	918.6	906.8	894.4	895.0
75°	706.5	718.9	741.8	751.6	751.0
77.5°	527.1	552.6	601.0	620.7	617.4
80°	376.5	414.4	476.0	494.3	474.0
82.5°	250.8	290.7	363.4	366.0	349.6
85°	148.0	190.5	256.7	254.7	244.9
87.5°	73.3	114.6	153.9	147.3	140.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)