

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-N-CLWG-UNV-L750-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-N-CLWG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

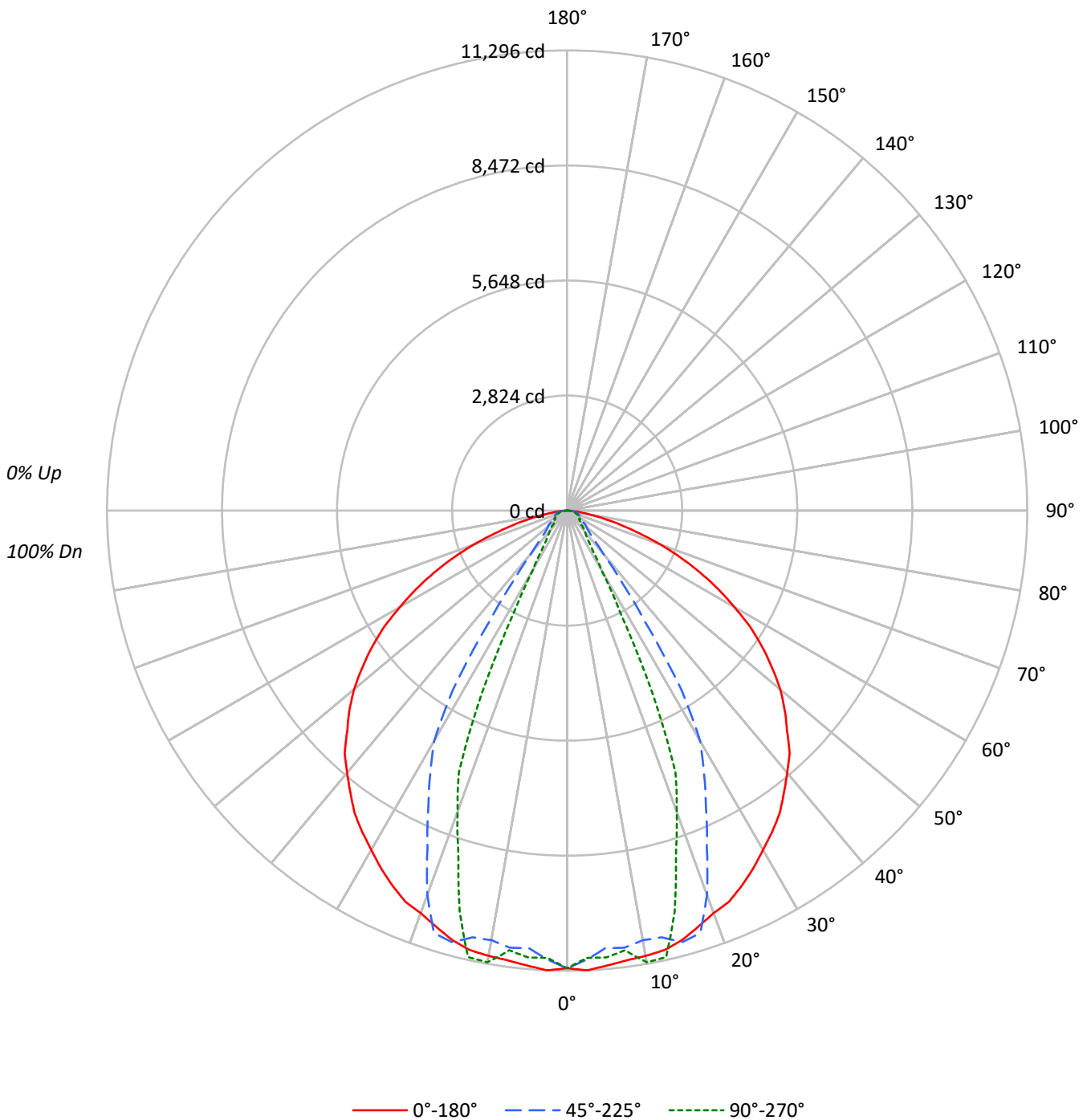
Lumens per Lamp: N/A
Luminaire Lumens: 15103.0 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15116	15116	15116
5°	15141	14564	14871
10°	15163	14634	15385
15°	15197	15276	14198
20°	15053	14368	11269
25°	15074	11978	7361
30°	14939	10147	2644
35°	14923	5497	1487
40°	14755	2396	1165
45°	14526	1481	913
50°	14300	1290	862
55°	13738	1119	844
60°	12746	1002	907
65°	11457	1133	991
70°	9609	1218	1022
75°	7183	1390	1106
80°	4511	1613	1261
85°	3004	2022	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1041.3	6.9
10°-20°	2940.3	19.5
20°-30°	3600.5	23.8
30°-40°	2827.5	18.7
40°-50°	2096.8	13.9
50°-60°	1276.5	8.5
60°-70°	764.6	5.1
70°-80°	419.5	2.8
80°-90°	136.1	0.9
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°	7582.1	50.2
0°-40°	10409.6	68.9
0°-60°	13782.8	91.3
0°-90°	15103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11234	11234	11234	11234	11234	
5°	11210	10905	10783	10902	11010	###
15°	10910	10610	10966	10523	10193	3072
25°	10154	10186	8068	6328	4958	4674
35°	9086	8265	3346	1120	906	5669
45°	7634	5482	778	590	480	5903
55°	5856	1510	477	404	360	5212
65°	3599	445	356	335	311	3555
75°	1382	281	267	232	213	1496
85°	195	153	131	120	120	237
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11234.4	11234.4	11234.4	11234.4	11234.4
2.5°	11295.7	11143.5	11026.9	10961.8	10988.3
5°	11210.1	10905.0	10783.1	10902.0	11010.3
7.5°	11135.9	10682.4	10820.2	10830.8	10887.6
10°	11098.1	10661.2	10711.2	10946.7	11260.9
12.5°	11048.1	10710.4	10727.8	11048.9	11226.0
15°	10909.6	10610.5	10966.3	10523.4	10192.6
17.5°	10707.4	10377.3	10866.4	9322.6	8872.9
20°	10512.8	10123.7	10034.3	8304.3	7870.4
22.5°	10387.1	10085.0	8963.7	7399.5	6951.3
25°	10153.9	10185.7	8068.0	6328.1	4958.5
27.5°	9897.3	9948.8	7276.1	4220.3	2840.8
30°	9615.6	9674.7	6531.0	2494.0	1702.0
32.5°	9360.5	9027.3	5215.9	1555.9	1183.4
35°	9085.6	8264.9	3346.5	1119.8	905.5
37.5°	8739.6	7463.8	2118.5	885.8	760.2
40°	8400.4	6744.6	1364.4	756.4	663.3
42.5°	8083.2	6151.7	992.6	661.0	598.9
45°	7634.2	5481.7	778.3	589.8	480.0
47.5°	7245.8	4695.8	680.7	499.0	414.2
50°	6831.6	3590.3	616.3	443.7	411.9
52.5°	6340.2	2348.6	569.4	424.8	384.6
55°	5856.4	1510.5	477.0	403.6	359.6
57.5°	5334.0	957.8	421.0	391.4	375.5
60°	4736.6	645.8	372.5	371.0	336.9
62.5°	4183.9	530.8	359.6	355.9	318.8
65°	3598.7	445.2	355.9	334.7	311.2
67.5°	3014.2	381.6	321.8	305.9	285.4
70°	2442.5	349.0	309.7	302.9	259.7
72.5°	1855.0	287.7	274.8	256.7	215.8
75°	1381.8	280.9	267.3	232.4	212.8
77.5°	935.1	258.9	243.0	208.2	192.3
80°	582.2	237.7	208.2	182.5	162.8
82.5°	346.0	198.4	171.1	150.7	137.8
85°	194.6	152.9	131.0	120.4	119.6
87.5°	41.6	55.3	43.9	41.6	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)