

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-LD5-15SE-N-CL-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-N-CL-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

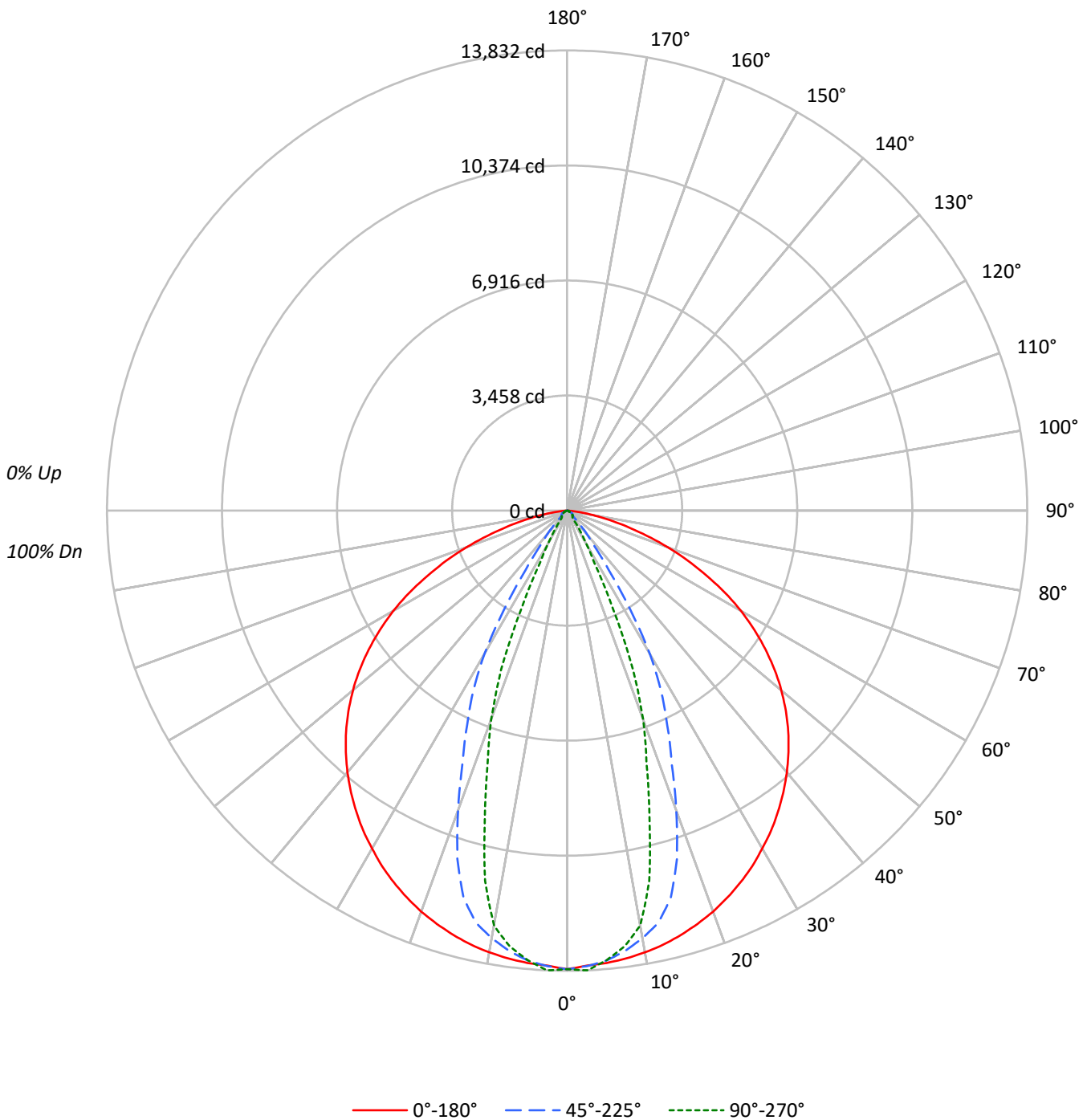
Lumens per Lamp: N/A
Luminaire Lumens: 14744.0 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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-LD5-15SE-N-CL-UNV-L750-ED1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CL-UNV-L750-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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18549	18549	18549
5°	18435	18339	18325
10°	18423	17832	17306
15°	18401	16768	13306
20°	18366	13722	9545
25°	18308	10573	4850
30°	18221	7716	1765
35°	18156	3543	614
40°	18045	1608	424
45°	17884	600	429
50°	17599	436	452
55°	17078	458	344
60°	16229	490	304
65°	14718	373	247
70°	12619	269	227
75°	9645	239	216
80°	6034	224	235
85°	1907	261	316



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CL-UNV-L750-ED1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1283.5	8.7
10°-20°	3233.2	21.9
20°-30°	3521.1	23.9
30°-40°	2633.9	17.9
40°-50°	1893.9	12.8
50°-60°	1163.1	7.9
60°-70°	669.3	4.5
70°-80°	298.7	2.0
80°-90°	47.4	0.3
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°	8037.7	54.5
0°-40°	10671.6	72.4
0°-60°	13728.6	93.1
0°-90°	14744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13786	13786	13786	13786	13786	
5°	13649	13713	13578	13591	13568	###
15°	13210	12957	12038	10338	9553	3729
25°	12332	11447	7122	4569	3267	5685
35°	11054	7928	2157	634	374	6914
45°	9399	4454	315	234	226	7241
55°	7280	926	195	189	147	6491
65°	4623	102	117	97	78	4576
75°	1855	61	46	47	42	2013
85°	124	12	17	22	20	246
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-15SE-N-CL-UNV-L750-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13786.0	13786.0	13786.0	13786.0	13786.0
2.5°	13690.1	13779.7	13704.2	13771.9	13831.9
5°	13649.2	13713.4	13577.9	13590.6	13568.0
7.5°	13578.6	13594.1	13349.4	13254.8	13209.0
10°	13484.1	13442.5	13051.7	12826.6	12666.5
12.5°	13364.9	13227.3	12681.3	11877.8	11398.8
15°	13210.4	12957.1	12037.9	10338.5	9552.6
17.5°	13026.3	12674.9	10972.7	8616.4	7936.4
20°	12826.6	12363.1	9583.6	7326.2	6665.9
22.5°	12591.0	11964.5	8213.6	6093.0	5186.5
25°	12332.1	11447.4	7121.6	4569.2	3267.0
27.5°	12052.7	10765.3	6110.7	2802.1	1766.5
30°	11728.2	9934.9	4966.4	1572.5	1135.8
32.5°	11411.5	8967.1	3547.7	1047.6	725.9
35°	11053.8	7927.9	2157.3	634.2	373.9
37.5°	10675.0	6983.3	1350.2	345.0	258.2
40°	10273.6	6087.4	915.7	244.8	241.3
42.5°	9844.6	5276.8	573.5	232.8	240.6
45°	9398.8	4454.3	315.3	233.5	225.7
47.5°	8914.9	3561.1	220.1	220.8	220.1
50°	8407.6	2554.5	208.1	218.0	215.9
52.5°	7860.9	1585.9	208.8	213.0	191.2
55°	7280.3	925.6	195.4	189.1	146.7
57.5°	6670.1	577.1	191.2	155.9	131.9
60°	6030.9	304.8	182.0	140.4	112.9
62.5°	5350.2	150.3	146.0	119.9	92.4
65°	4622.9	101.6	117.1	97.4	77.6
67.5°	3920.2	91.7	88.2	79.7	67.7
70°	3207.7	83.9	68.4	69.8	57.8
72.5°	2508.6	76.2	55.0	60.0	48.7
75°	1855.4	61.4	45.9	47.3	41.6
77.5°	1291.0	48.0	36.0	40.2	38.8
80°	778.8	30.3	28.9	33.2	30.3
82.5°	377.4	19.8	22.6	26.1	24.0
85°	123.5	12.0	16.9	21.9	20.5
87.5°	15.5	7.1	14.1	19.0	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)