

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-LD5-48SE-N-UNV-L750-ED4-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-N-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

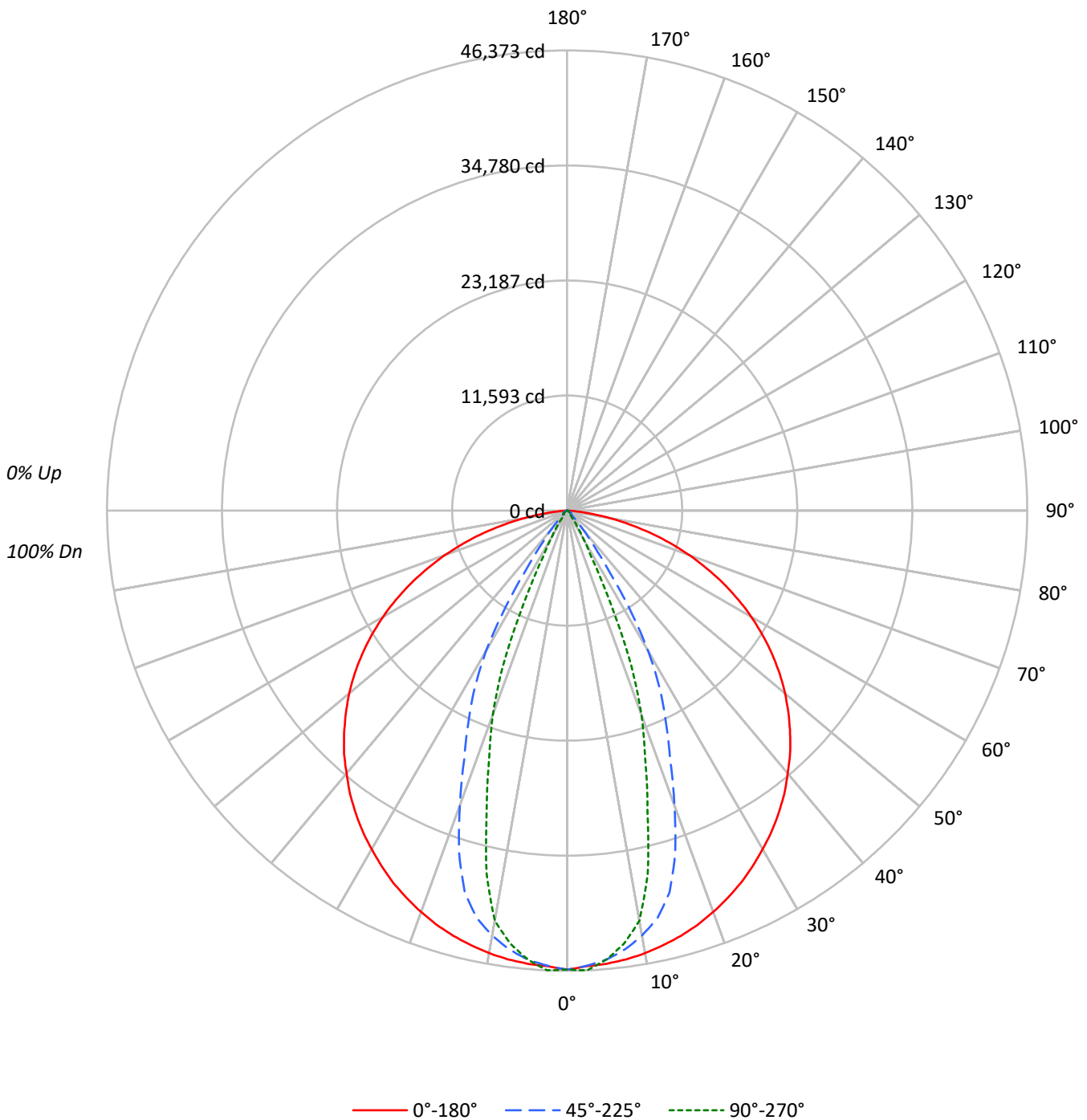
Lumens per Lamp: N/A
Luminaire Lumens: 49168.9 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 299.1
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-LD5-48SE-N-UNV-L750-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48SE-N-UNV-L750-ED4-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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	62243	62243	62243
5°	61910	61363	61336
10°	61871	59397	57313
15°	61784	55491	43618
20°	61640	45236	31397
25°	61483	34977	15466
30°	61211	25421	5016
35°	61067	11278	1290
40°	60747	4580	870
45°	60475	1286	925
50°	60004	912	1027
55°	59140	1084	439
60°	57680	1208	266
65°	55308	771	315
70°	51381	684	389
75°	44949	515	538
80°	33609	631	767
85°	16647	815	1019



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48SE-N-UNV-L750-ED4-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4293.0	8.7
10°-20°	10734.7	21.8
20°-30°	11627.3	23.6
30°-40°	8610.6	17.5
40°-50°	6201.8	12.6
50°-60°	3840.1	7.8
60°-70°	2361.6	4.8
70°-80°	1244.9	2.5
80°-90°	254.8	0.5
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°	26655.1	54.2
0°-40°	35265.6	71.7
0°-60°	45307.6	92.1
0°-90°	49168.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	49168.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	46260	46260	46260	46260	46260	
5°	45838	46007	45433	45466	45413	###
15°	44355	43325	39837	33877	31313	12521
25°	41414	37935	23560	14822	10418	19083
35°	37178	26210	6866	1615	786	23259
45°	31782	14766	676	489	486	24511
55°	25211	3041	462	418	187	22506
65°	17372	321	242	154	99	17140
75°	8646	75	99	130	103	9132
85°	1078	29	53	79	66	###
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48SE-N-UNV-L750-ED4-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	46260.4	46260.4	46260.4	46260.4	46260.4
2.5°	45963.3	46256.0	45910.5	46168.0	46372.7
5°	45837.9	46007.4	45433.0	45466.0	45413.2
7.5°	45617.8	45578.2	44612.1	44189.6	44004.7
10°	45285.5	45023.6	43474.4	42591.9	41949.3
12.5°	44856.4	44271.0	42054.9	39249.1	37506.1
15°	44354.6	43324.7	39836.7	33877.2	31313.4
17.5°	43756.1	42297.0	36209.9	28393.1	26104.4
20°	43049.6	41150.5	31592.9	24156.8	21927.5
22.5°	42261.8	39755.2	27107.9	20076.8	16896.8
25°	41414.5	37935.3	23560.4	14821.6	10418.0
27.5°	40435.2	35595.9	20233.0	8730.1	5316.8
30°	39398.7	32779.1	16362.0	4696.2	3228.4
32.5°	38353.4	29585.9	11577.8	2933.5	1831.0
35°	37178.2	26210.1	6866.1	1615.3	785.6
37.5°	35952.5	23115.9	4058.0	735.0	504.0
40°	34585.8	20288.0	2607.8	488.6	495.2
42.5°	33265.4	17651.6	1467.9	481.9	490.8
45°	31782.2	14766.5	675.6	488.6	486.3
47.5°	30248.3	11775.8	437.9	493.0	493.0
50°	28666.0	8419.8	435.7	504.0	490.8
52.5°	26995.7	5253.0	453.3	501.8	402.7
55°	25211.0	3041.3	462.1	418.1	187.1
57.5°	23362.4	1793.6	466.5	239.9	105.6
60°	21434.6	992.5	448.9	178.3	99.0
62.5°	19447.4	473.1	354.3	167.3	96.8
65°	17372.1	321.3	242.1	154.0	99.0
67.5°	15217.7	248.7	191.5	145.2	101.2
70°	13061.0	184.9	173.9	145.2	99.0
72.5°	10869.1	125.4	145.2	147.4	99.0
75°	8646.5	74.8	99.0	129.8	103.4
77.5°	6443.6	46.2	77.0	134.2	125.4
80°	4337.5	39.6	81.4	125.4	99.0
82.5°	2546.2	35.2	79.2	96.8	79.2
85°	1078.3	28.6	52.8	79.2	66.0
87.5°	202.5	24.2	41.8	63.8	57.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)