

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-LD5-48HE-N-CLI-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48HE-N-CLI-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

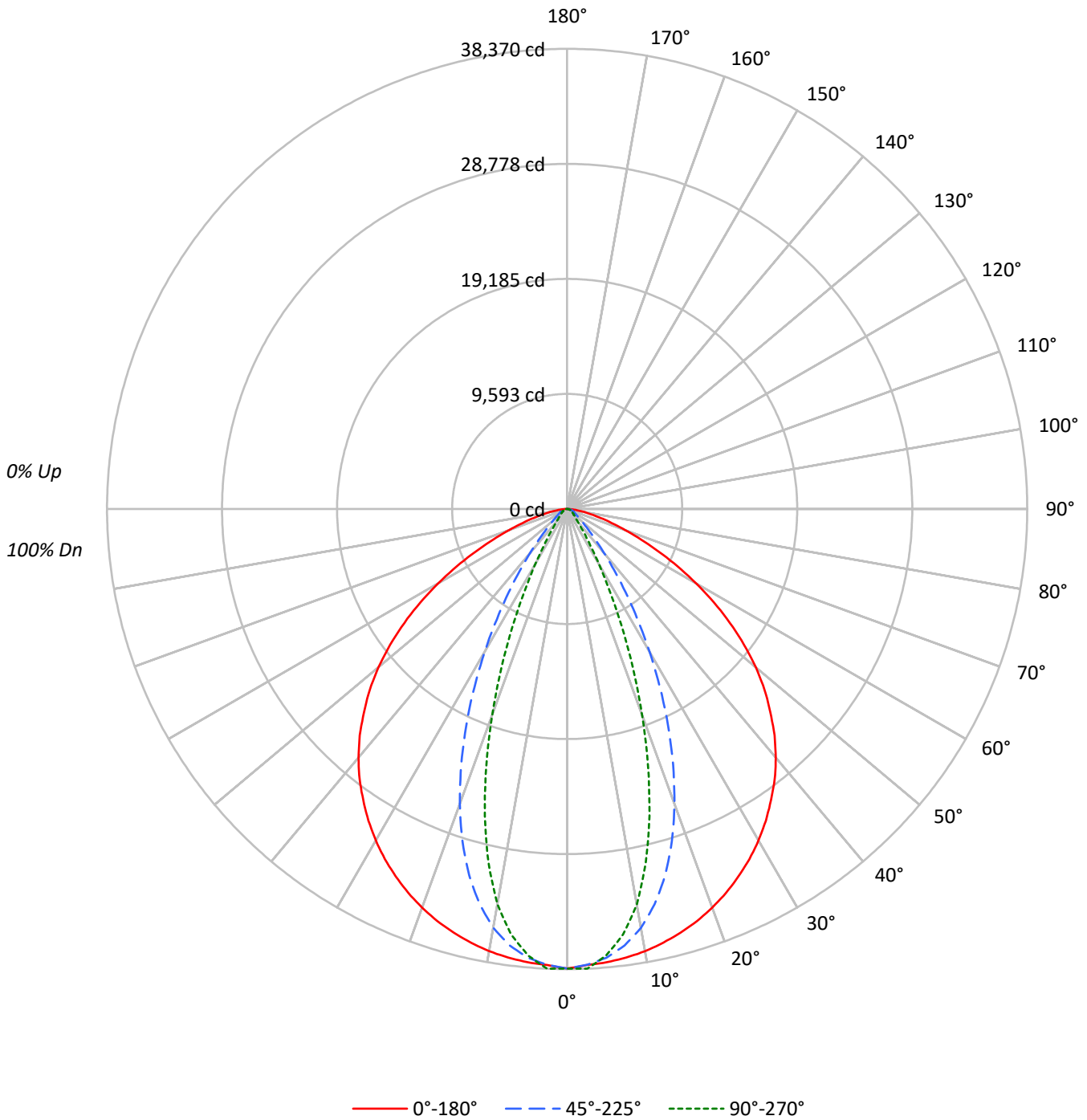
Lumens per Lamp: N/A
Luminaire Lumens: 41949.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 286.2
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-LD5-48HE-N-CLI-UNV-L750-ED4-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-48HE-N-CLI-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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51556	51556	51556
5°	51246	50736	50469
10°	51160	48438	45709
15°	50954	44030	36915
20°	50648	37465	26164
25°	50195	29542	15808
30°	49585	21322	8124
35°	48690	13939	4058
40°	47535	8373	2368
45°	45560	5000	1770
50°	42972	3270	1487
55°	38892	2481	1297
60°	33422	2113	1184
65°	26883	1928	1118
70°	20254	2064	1111
75°	14898	1962	1144
80°	10900	1955	1251
85°	8163	2368	1619



TEST NUMBER: P#

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3528.8	8.4
10°-20°	8779.0	20.9
20°-30°	9724.0	23.2
30°-40°	7790.7	18.6
40°-50°	5561.5	13.3
50°-60°	3572.2	8.5
60°-70°	1935.9	4.6
70°-80°	827.5	2.0
80°-90°	229.5	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°	22031.8	52.5
0°-40°	29822.4	71.1
0°-60°	38956.2	92.9
0°-90°	41949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	41949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38317	38317	38317	38317	38317	
5°	37942	38083	37565	37446	37367	###
15°	36580	35435	31609	27934	26501	10321
25°	33811	29813	19899	12965	10648	15576
35°	29643	21441	8486	3423	2470	18534
45°	23944	12378	2628	1118	930	18456
55°	16579	5534	1058	650	553	14775
65°	8444	2272	606	418	351	8456
75°	2866	832	377	262	220	3184
85°	529	220	153	127	105	646
90°	0	0	0	0	0	



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	38317.4	38317.4	38317.4	38317.4	38317.4
2.5°	38065.1	38303.3	38046.9	38206.4	38369.9
5°	37942.0	38083.3	37564.6	37445.5	37366.8
7.5°	37728.1	37687.7	36712.9	36081.2	35776.5
10°	37445.5	37118.6	35453.6	34065.1	33455.6
12.5°	37041.9	36367.8	33748.2	31310.2	30276.9
15°	36579.7	35435.4	31608.9	27933.8	26500.9
17.5°	36026.7	34345.6	29051.9	24313.2	22422.1
20°	35372.8	33029.7	26165.9	20466.5	18272.7
22.5°	34642.3	31512.0	23076.0	16631.9	14278.7
25°	33810.8	29812.7	19899.4	12964.9	10648.0
27.5°	32912.7	27925.7	16740.9	9687.3	7574.3
30°	31915.7	25883.3	13723.7	6985.0	5229.1
32.5°	30827.9	23711.7	10920.4	4912.3	3576.2
35°	29643.2	21441.3	8486.5	3422.9	2470.3
37.5°	28430.3	19124.4	6409.8	2419.8	1772.0
40°	27063.9	16815.6	4767.0	1772.0	1348.2
42.5°	25596.7	14551.2	3527.8	1364.3	1091.8
45°	23943.8	12377.6	2627.7	1118.1	930.4
47.5°	22341.4	10351.3	1996.0	952.6	809.3
50°	20529.0	8522.8	1562.1	831.5	710.4
52.5°	18605.7	6914.3	1267.4	732.6	625.6
55°	16579.4	5533.9	1057.5	649.9	553.0
57.5°	14526.9	4383.5	904.1	579.2	492.4
60°	12419.9	3505.6	785.1	518.7	440.0
62.5°	10363.4	2803.3	686.2	466.2	393.5
65°	8444.1	2272.5	605.5	417.8	351.2
67.5°	6670.1	1796.2	565.1	375.4	316.9
70°	5148.4	1398.6	524.7	335.0	282.5
72.5°	3901.2	1073.7	464.2	298.7	250.3
75°	2865.8	831.5	377.4	262.4	220.0
77.5°	2050.5	639.8	306.8	228.1	189.7
80°	1406.7	476.3	252.3	195.8	161.5
82.5°	914.2	337.0	203.8	161.5	133.2
85°	528.8	220.0	153.4	127.1	104.9
87.5°	228.1	121.1	104.9	94.9	80.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)