

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-W-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-48SE-W-CLI-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

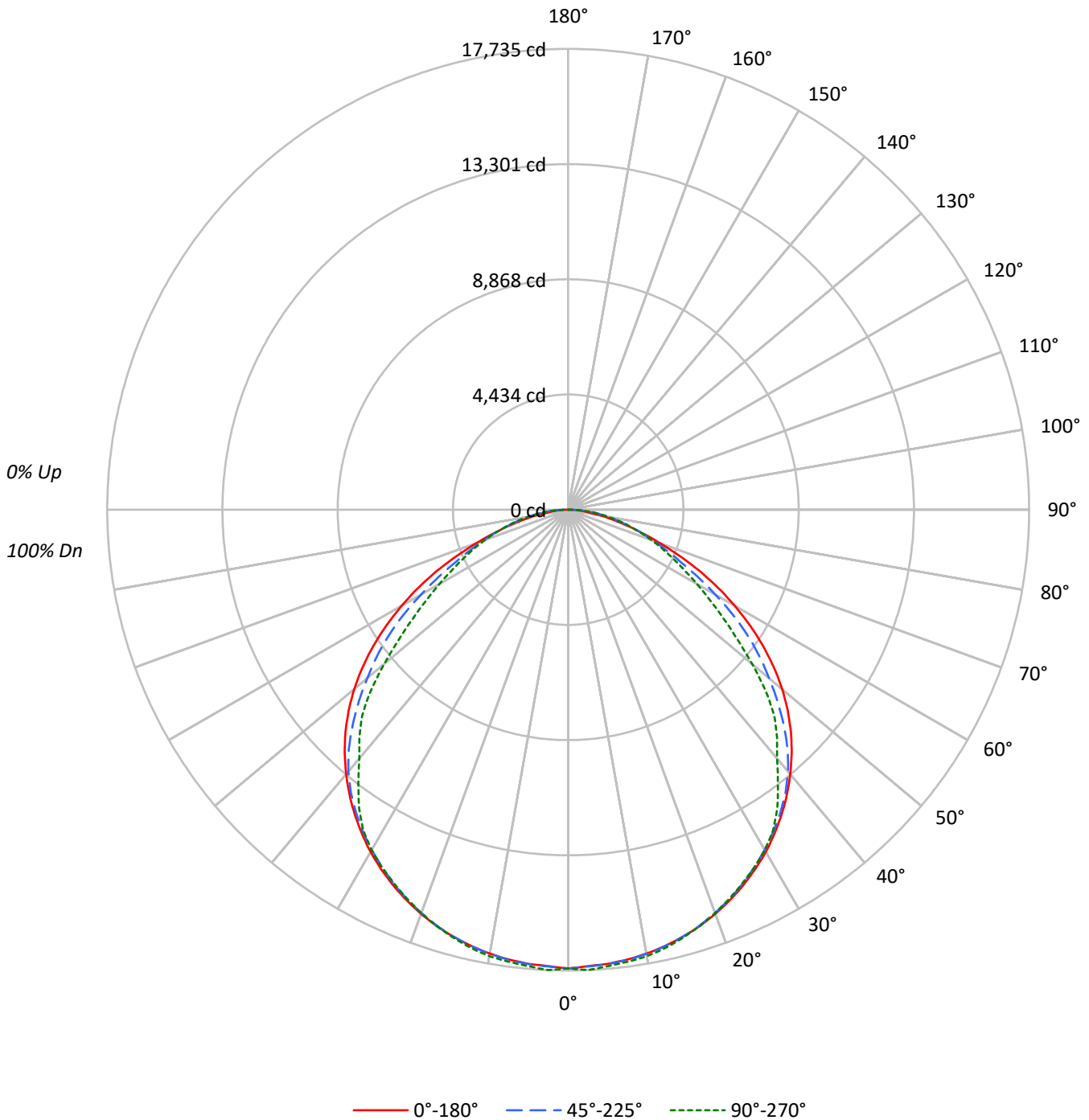
Lumens per Lamp: N/A
Luminaire Lumens: 47433.0 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87					85				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74					71				
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63					61				
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54					52				
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47					45				
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42					40				
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37					35				
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33					31				
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30					28				
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23754	23754	23754
5°	23691	23708	23814
10°	23704	23715	23840
15°	23707	23704	23760
20°	23701	23646	23652
25°	23665	23577	23548
30°	23626	23484	23498
35°	23516	23370	23039
40°	23348	23110	21945
45°	23052	22314	21338
50°	22497	21126	19325
55°	21473	19758	17088
60°	19928	17629	15410
65°	17713	15263	14170
70°	14700	13641	13357
75°	11889	12483	12638
80°	9443	11939	11890
85°	7395	12826	12238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1674.3	3.5
10°-20°	4815.9	10.2
20°-30°	7343.5	15.5
30°-40°	8884.5	18.7
40°-50°	8999.2	19.0
50°-60°	7438.1	15.7
60°-70°	4912.7	10.4
70°-80°	2561.7	5.4
80°-90°	803.1	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°	13833.7	29.2
0°-40°	22718.2	47.9
0°-60°	39155.5	82.5
0°-90°	47433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	47433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17655	17655	17655	17655	17655	
5°	17540	17646	17553	17629	17632	###
15°	17019	17106	17017	17070	17057	4806
25°	15940	16004	15881	15921	15862	7350
35°	14317	14336	14228	14209	14026	8955
45°	12115	12083	11727	11362	11214	9328
55°	9154	9018	8423	7604	7284	8159
65°	5564	5402	4794	4483	4451	5495
75°	2287	2327	2401	2433	2431	2491
85°	479	617	831	824	793	581
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	17654.8	17654.8	17654.8	17654.8	17654.8
2.5°	17580.7	17684.5	17597.6	17673.9	17735.4
5°	17540.4	17646.4	17553.1	17629.4	17631.5
7.5°	17462.0	17567.9	17472.6	17548.9	17546.7
10°	17349.6	17449.2	17358.1	17449.2	17449.2
12.5°	17197.0	17294.5	17205.5	17290.3	17277.6
15°	17019.0	17105.9	17016.9	17069.9	17057.2
17.5°	16809.2	16887.6	16788.0	16832.5	16807.1
20°	16552.7	16624.8	16514.6	16571.8	16518.8
22.5°	16264.5	16332.3	16220.0	16262.4	16203.0
25°	15940.2	16003.8	15880.9	15921.1	15861.8
27.5°	15590.5	15647.7	15510.0	15558.7	15512.1
30°	15206.9	15234.4	15115.8	15179.3	15124.2
32.5°	14778.8	14795.7	14691.9	14749.1	14655.8
35°	14316.7	14335.8	14227.7	14208.6	14026.4
37.5°	13822.9	13831.4	13729.7	13558.0	13257.0
40°	13293.0	13288.8	13157.4	12761.1	12494.0
42.5°	12727.2	12725.0	12494.0	12042.6	11890.0
45°	12114.6	12082.9	11726.8	11362.3	11213.9
47.5°	11457.6	11423.7	10925.6	10635.3	10298.3
50°	10747.6	10688.3	10092.7	9696.4	9232.2
52.5°	9982.5	9891.4	9285.2	8645.1	8206.4
55°	9153.8	9018.2	8422.6	7604.5	7284.5
57.5°	8291.2	8089.9	7511.3	6714.3	6453.7
60°	7405.3	7180.6	6551.2	5896.2	5726.7
62.5°	6493.9	6271.4	5629.2	5135.4	5042.1
65°	5563.5	5402.4	4794.1	4482.6	4450.8
67.5°	4609.8	4552.5	4088.4	3929.4	3916.7
70°	3736.6	3726.0	3467.4	3386.8	3395.3
72.5°	2986.3	2973.6	2935.4	2895.1	2897.3
75°	2286.9	2327.1	2401.3	2433.1	2431.0
77.5°	1706.1	1788.8	1945.6	2009.2	1998.6
80°	1218.7	1341.6	1540.8	1600.2	1534.5
82.5°	811.7	941.0	1176.3	1184.8	1131.8
85°	479.0	616.8	830.8	824.5	792.7
87.5°	237.4	370.9	498.1	476.9	455.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)