

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: P284552

Luminaire Tested: **4SNLED-LD5-48HL-SLW-UNV-L840-CD1-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: P284552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-48HL-SLW-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4855.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

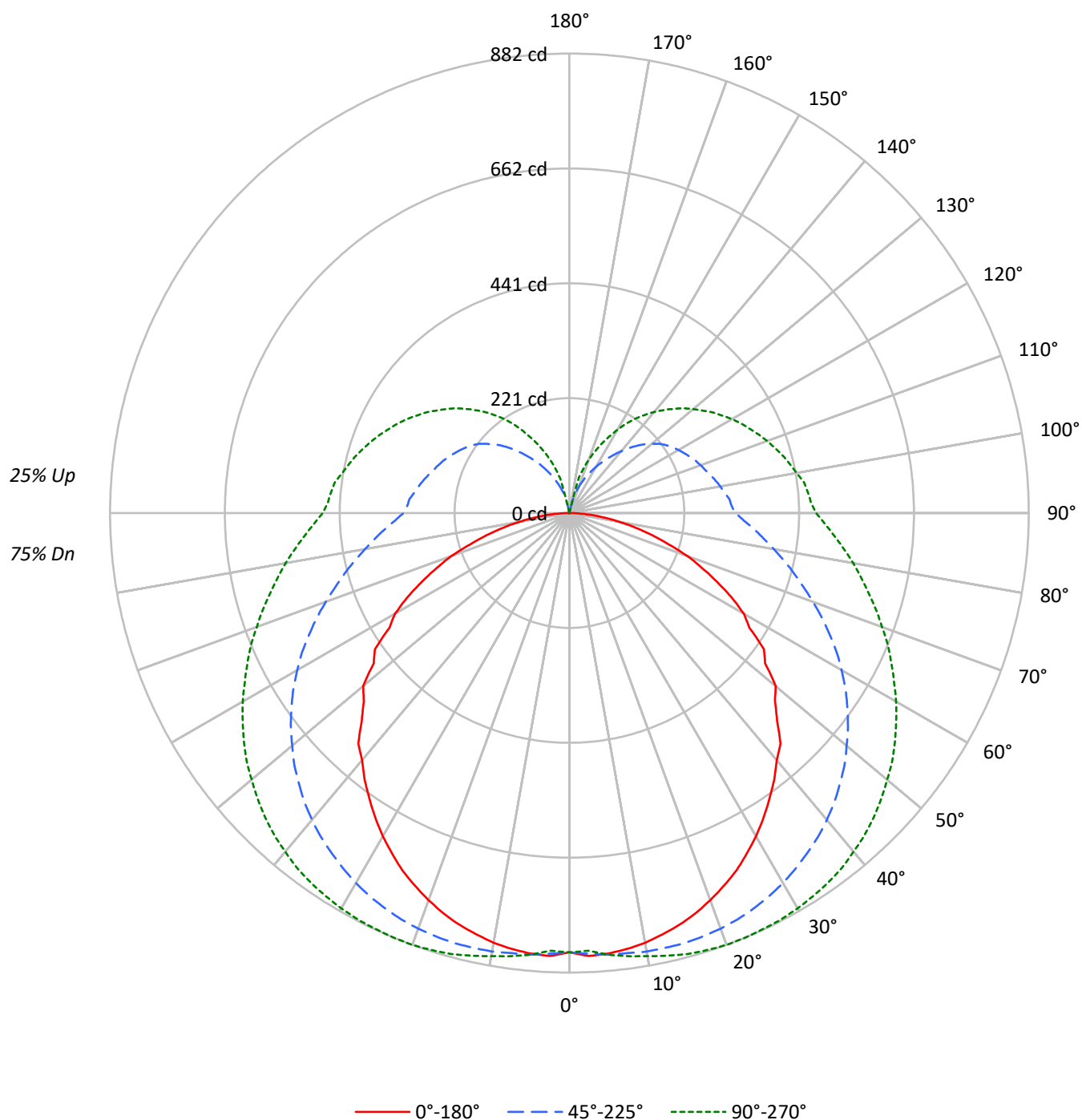
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	113	113	113	113		107	107	107	107		97	97	97		88	88	88		79	79	79
1	100	94	89	84		95	89	84	80		80	76	73		72	69	66		64	62	60
2	90	80	72	66		85	76	69	63		68	63	58		61	57	53		55	51	48
3	81	69	60	53		76	66	58	51		59	53	47		53	48	43		47	43	39
4	74	61	51	44		69	58	49	43		52	45	39		47	41	36		42	37	33
5	67	54	44	37		63	51	43	36		46	39	33		42	35	31		37	32	28
6	62	48	39	32		58	46	37	31		41	34	29		37	31	27		34	28	24
7	57	43	34	28		54	41	33	27		37	30	25		34	28	23		30	25	21
8	53	39	31	25		50	37	29	24		34	27	22		31	25	21		28	23	19
9	49	36	27	22		47	34	26	21		31	24	20		28	23	18		26	21	17
10	46	33	25	20		44	31	24	19		29	22	18		26	21	16		24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6814	6814	6814
5°	6867	6733	6683
10°	6834	6674	6646
15°	6787	6638	6660
20°	6722	6608	6673
25°	6658	6584	6684
30°	6566	6563	6720
35°	6464	6540	6765
40°	6367	6535	6809
45°	6247	6520	6863
50°	6265	6506	6918
55°	6153	6506	7000
60°	5929	6510	7095
65°	5600	6518	7227
70°	5237	6567	7430
75°	4597	6719	7731
80°	3882	7042	8228
85°	2883	7698	8955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.7
10°-20°	240.2	4.9
20°-30°	381.7	7.9
30°-40°	489.9	10.1
40°-50°	553.2	11.4
50°-60°	564.5	11.6
60°-70°	523.0	10.8
70°-80°	442.8	9.1
80°-90°	353.4	7.3
90°-100°	300.1	6.2
100°-110°	267.4	5.5
110°-120°	227.7	4.7
120°-130°	180.9	3.7
130°-140°	128.3	2.6
140°-150°	76.6	1.6
150°-160°	35.7	0.7
160°-170°	8.5	0.2
170°-180°	0.0	0.0
0°-30°	702.9	14.5
0°-40°	1192.8	24.6
0°-60°	2310.5	47.6
0°-90°	3629.7	74.8
90°-120°	795.2	16.4
90°-150°	1181.1	24.3
90°-180°	1225.0	25.2
0°-180°	4855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	849	842	851	851	851	81
15°	818	825	855	870	876	231
25°	758	783	837	867	881	349
35°	670	719	796	845	866	419
45°	564	640	734	799	826	438
55°	456	533	651	731	763	401
65°	312	416	551	646	682	310
75°	164	291	446	556	594	175
85°	42	187	356	471	511	46
90°	2	153	318	434	474	3
95°	0	144	308	421	460	0
105°	0	132	281	387	424	0
115°	0	123	256	348	382	0
125°	0	106	227	307	336	0
135°	0	79	183	259	283	0
145°	0	51	128	194	221	0
155°	1	32	79	118	147	1
165°	1	17	35	49	70	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	843.2	843.2	843.2	843.2	843.2
2.5°	850.9	842.0	846.6	845.4	840.8
5°	848.8	842.0	850.9	850.9	850.9
7.5°	844.1	839.5	852.1	856.8	858.0
10°	837.4	837.4	854.6	861.4	863.5
12.5°	828.1	831.5	854.6	864.8	870.3
15°	818.0	824.8	854.6	870.3	876.2
17.5°	805.4	816.7	852.1	871.5	879.5
20°	790.6	807.8	848.8	871.5	882.0
22.5°	774.6	796.4	844.1	869.4	882.0
25°	757.6	782.6	837.4	866.9	880.8
27.5°	737.0	769.0	829.4	863.5	879.5
30°	716.4	753.0	820.1	858.9	876.2
32.5°	693.6	735.8	808.7	852.1	871.5
35°	669.6	718.8	796.4	845.4	866.0
37.5°	645.6	698.2	783.8	836.1	858.9
40°	619.4	677.6	769.0	824.8	848.8
42.5°	600.0	656.0	753.0	813.4	838.6
45°	563.7	640.0	734.5	798.6	826.0
47.5°	535.1	609.3	716.4	783.8	812.1
50°	516.9	584.0	694.8	766.6	796.4
52.5°	473.5	567.1	674.2	749.6	781.3
55°	456.2	532.9	651.4	731.2	763.2
57.5°	409.5	508.9	628.6	710.8	743.8
60°	386.7	475.6	603.4	690.2	724.4
62.5°	351.3	447.3	578.5	667.4	702.8
65°	312.5	416.5	551.1	645.6	682.2
67.5°	276.1	385.7	524.9	622.8	661.6
70°	240.7	353.7	497.5	600.0	638.8
72.5°	199.5	321.7	471.0	578.5	617.3
75°	164.4	290.9	446.1	555.7	594.5
77.5°	129.9	261.4	422.1	535.1	573.8
80°	98.2	232.7	398.1	513.5	553.2
82.5°	68.3	208.7	376.5	492.9	531.7
85°	42.2	187.2	355.9	471.0	511.0
87.5°	19.4	167.8	335.3	450.7	491.6
90°	2.2	153.0	318.3	433.5	473.5
92.5°	1.2	148.4	311.6	425.5	464.2
95°	0.0	143.8	308.2	420.8	459.6
97.5°	0.0	139.2	300.2	414.1	454.1
100°	0.0	137.0	294.3	403.9	442.7
102.5°	0.0	133.6	287.5	394.7	433.5
105°	0.0	132.4	280.8	386.7	424.5
107.5°	0.0	129.9	273.7	376.5	414.1
110°	0.0	127.8	268.1	367.3	403.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	125.6	262.3	358.3	393.4
115°	0.0	123.1	255.5	347.9	382.1
117.5°	0.0	119.8	248.7	337.7	371.9
120°	0.0	115.1	242.0	328.5	360.5
122.5°	0.0	110.5	234.9	317.1	347.9
125°	0.0	106.2	226.9	306.9	336.5
127.5°	0.0	99.1	218.0	295.5	322.9
130°	0.0	92.4	206.6	284.2	310.3
132.5°	1.2	85.6	195.2	271.5	297.7
135°	0.0	78.8	182.6	258.9	282.9
137.5°	0.0	73.0	168.7	245.4	268.1
140°	0.0	66.2	155.2	229.4	253.4
142.5°	0.0	58.2	141.6	212.1	237.4
145°	0.0	51.4	127.8	194.0	221.3
147.5°	1.2	45.6	115.1	174.6	204.1
150°	1.2	40.9	102.8	155.2	184.7
152.5°	1.2	36.6	90.2	137.0	165.3
155°	1.2	32.0	78.8	118.5	147.2
157.5°	1.2	27.4	66.2	100.4	127.8
160°	1.2	24.0	54.8	84.4	109.6
162.5°	1.2	20.6	44.6	66.2	90.2
165°	1.2	17.2	35.4	48.9	69.6
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)