

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: P284747

Luminaire Tested: **4SNLED-LD5-48HL-SLW-UNV-L950-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: P284747
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-L950-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: 4376.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

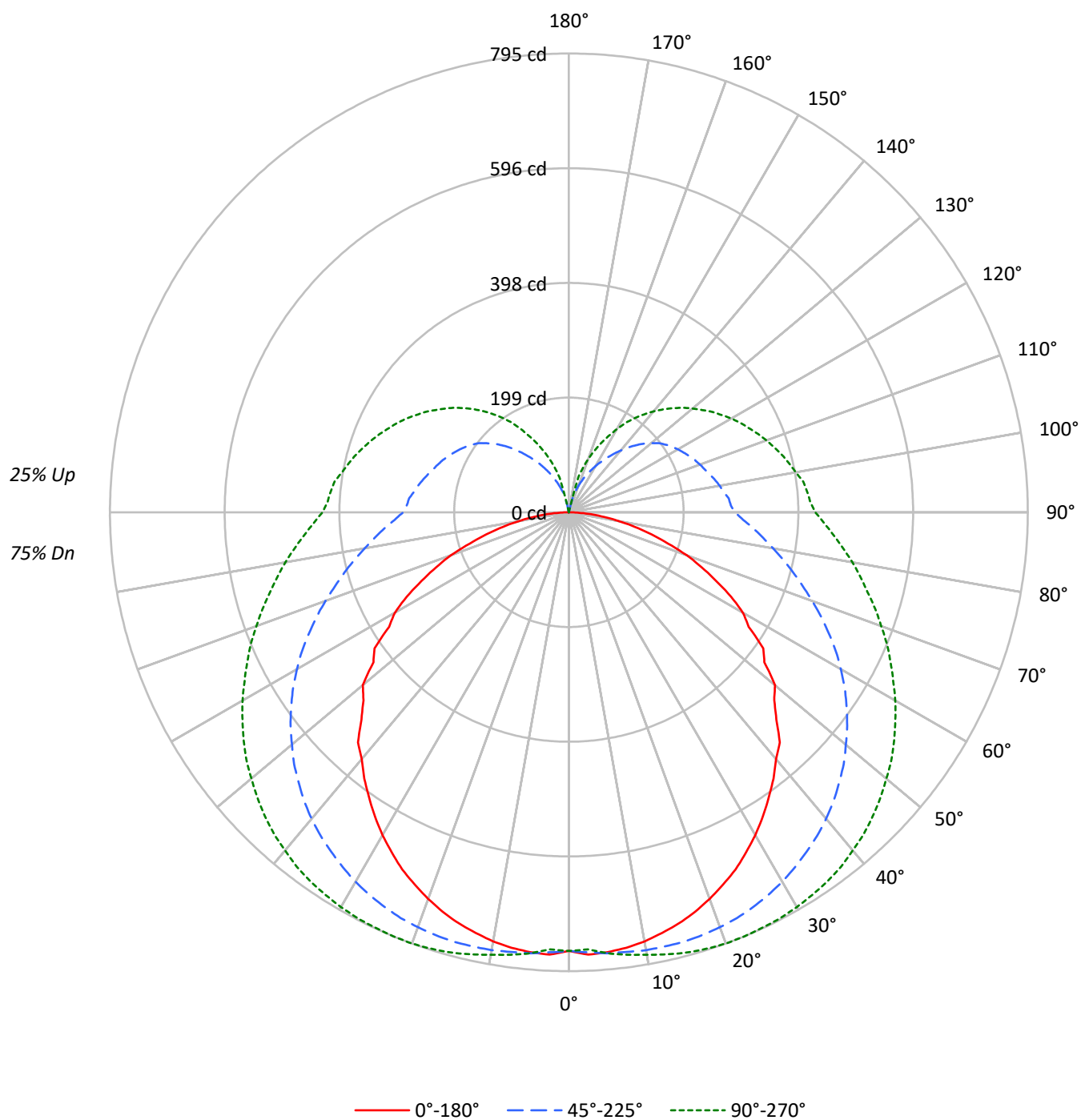
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6142	6142	6142
5°	6189	6069	6024
10°	6160	6016	5990
15°	6117	5983	6003
20°	6059	5955	6015
25°	6002	5934	6024
30°	5918	5916	6056
35°	5826	5895	6098
40°	5739	5891	6137
45°	5631	5877	6186
50°	5647	5864	6236
55°	5546	5865	6309
60°	5343	5868	6395
65°	5046	5875	6514
70°	4722	5919	6697
75°	4144	6056	6968
80°	3498	6347	7416
85°	2596	6939	8072



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.7
10°-20°	216.5	4.9
20°-30°	344.1	7.9
30°-40°	441.6	10.1
40°-50°	498.6	11.4
50°-60°	508.8	11.6
60°-70°	471.4	10.8
70°-80°	399.1	9.1
80°-90°	318.6	7.3
90°-100°	270.5	6.2
100°-110°	241.0	5.5
110°-120°	205.3	4.7
120°-130°	163.0	3.7
130°-140°	115.7	2.6
140°-150°	69.1	1.6
150°-160°	32.2	0.7
160°-170°	7.6	0.2
170°-180°	0.0	0.0
0°-30°	633.6	14.5
0°-40°	1075.2	24.6
0°-60°	2082.6	47.6
0°-90°	3271.6	74.8
90°-120°	716.8	16.4
90°-150°	1064.5	24.3
90°-180°	1104.0	25.2
0°-180°	4376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	765	759	767	767	767	73
15°	737	743	770	784	790	208
25°	683	705	755	781	794	314
35°	604	648	718	762	781	378
45°	508	577	662	720	744	395
55°	411	480	587	659	688	361
65°	282	375	497	582	615	280
75°	148	262	402	501	536	158
85°	38	169	321	425	461	41
90°	2	138	287	391	427	3
95°	0	130	278	379	414	0
105°	0	119	253	348	383	0
115°	0	111	230	314	344	0
125°	0	96	204	277	303	0
135°	0	71	164	233	255	0
145°	0	46	115	175	200	0
155°	1	29	71	107	133	1
165°	1	16	32	44	63	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°	760.0	760.0	760.0	760.0	760.0
2.5°	767.0	758.9	763.1	762.0	757.8
5°	765.0	758.9	767.0	767.0	767.0
7.5°	760.9	756.7	768.1	772.2	773.3
10°	754.8	754.8	770.3	776.4	778.3
12.5°	746.4	749.5	770.3	779.5	784.4
15°	737.3	743.4	770.3	784.4	789.7
17.5°	725.9	736.2	768.1	785.6	792.8
20°	712.6	728.1	765.0	785.6	795.0
22.5°	698.1	717.9	760.9	783.6	795.0
25°	682.9	705.4	754.8	781.4	793.9
27.5°	664.3	693.2	747.5	778.3	792.8
30°	645.7	678.7	739.2	774.2	789.7
32.5°	625.2	663.2	729.0	768.1	785.6
35°	603.5	647.9	717.9	762.0	780.6
37.5°	581.9	629.3	706.5	753.6	774.2
40°	558.3	610.7	693.2	743.4	765.0
42.5°	540.8	591.3	678.7	733.1	755.9
45°	508.1	576.9	662.1	719.8	744.5
47.5°	482.3	549.1	645.7	706.5	732.0
50°	465.9	526.4	626.3	690.9	717.9
52.5°	426.8	511.1	607.7	675.7	704.3
55°	411.2	480.3	587.2	659.0	687.9
57.5°	369.1	458.7	566.6	640.7	670.4
60°	348.5	428.7	543.9	622.1	652.9
62.5°	316.6	403.2	521.4	601.6	633.5
65°	281.6	375.4	496.7	581.9	614.9
67.5°	248.9	347.7	473.1	561.4	596.3
70°	217.0	318.8	448.4	540.8	575.8
72.5°	179.8	290.0	424.6	521.4	556.4
75°	148.2	262.2	402.1	500.9	535.8
77.5°	117.1	235.6	380.4	482.3	517.2
80°	88.5	209.8	358.8	462.8	498.6
82.5°	61.6	188.1	339.4	444.3	479.2
85°	38.0	168.7	320.8	424.6	460.6
87.5°	17.5	151.2	302.2	406.2	443.1
90°	1.9	137.9	286.9	390.7	426.8
92.5°	1.1	133.7	280.8	383.5	418.4
95°	0.0	129.6	277.8	379.3	414.3
97.5°	0.0	125.4	270.5	373.2	409.3
100°	0.0	123.5	265.3	364.1	399.0
102.5°	0.0	120.4	259.2	355.7	390.7
105°	0.0	119.3	253.1	348.5	382.7
107.5°	0.0	117.1	246.7	339.4	373.2
110°	0.0	115.2	241.7	331.0	364.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	113.2	236.4	323.0	354.6
115°	0.0	111.0	230.3	313.6	344.4
117.5°	0.0	107.9	224.2	304.4	335.2
120°	0.0	103.8	218.1	296.1	324.9
122.5°	0.0	99.6	211.7	285.8	313.6
125°	0.0	95.7	204.5	276.7	303.3
127.5°	0.0	89.3	196.5	266.4	291.1
130°	0.0	83.2	186.2	256.1	279.7
132.5°	1.1	77.1	175.9	244.7	268.3
135°	0.0	71.0	164.5	233.4	255.0
137.5°	0.0	65.8	152.1	221.2	241.7
140°	0.0	59.7	139.9	206.7	228.4
142.5°	0.0	52.4	127.6	191.2	213.9
145°	0.0	46.3	115.2	174.8	199.5
147.5°	1.1	41.1	103.8	157.3	184.0
150°	1.1	36.9	92.7	139.9	166.5
152.5°	1.1	33.0	81.3	123.5	149.0
155°	1.1	28.9	71.0	106.8	132.6
157.5°	1.1	24.7	59.7	90.5	115.2
160°	1.1	21.6	49.4	76.0	98.8
162.5°	1.1	18.6	40.2	59.7	81.3
165°	1.1	15.5	31.9	44.1	62.7
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)