

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: **4SNLED-LD5-48HL-SLW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)  
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: -

**Summary**

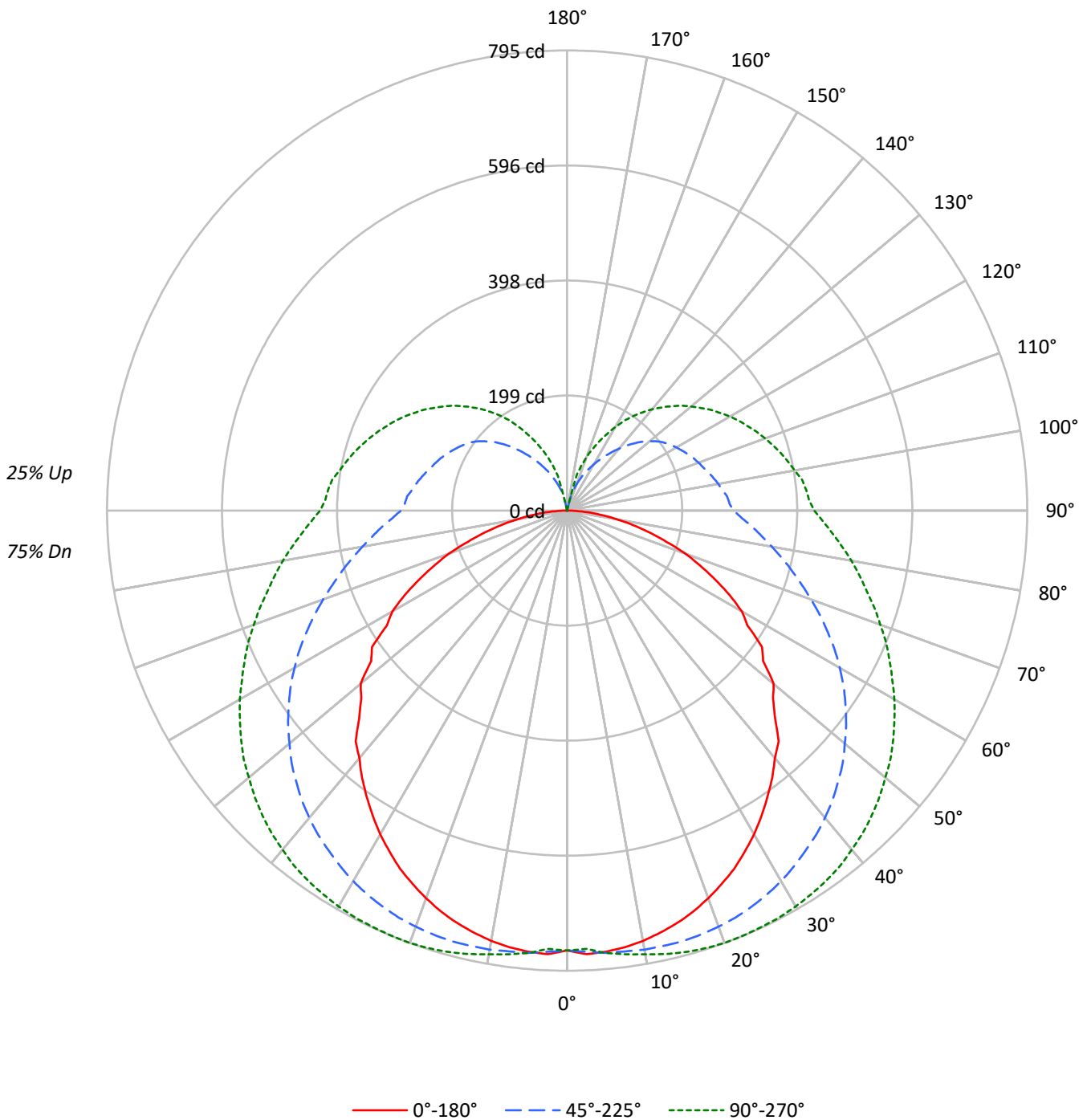
Lumens per Lamp: N/A  
Luminaire Lumens: 4376.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6141	6141	6141
5°	6189	6070	6025
10°	6160	6015	5991
15°	6117	5983	6003
20°	6059	5955	6014
25°	6001	5934	6023
30°	5919	5916	6056
35°	5827	5894	6097
40°	5740	5890	6137
45°	5630	5878	6186
50°	5646	5863	6234
55°	5547	5865	6309
60°	5345	5869	6396
65°	5050	5875	6514
70°	4722	5917	6697
75°	4141	6056	6966
80°	3495	6349	7417
85°	2596	6939	8074



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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°	498.7	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°	115.6	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°	3271.7	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	744	770	785	790	208
25°	683	705	755	782	794	314
35°	604	648	718	762	780	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	42
90°	2	138	287	391	427	3
95°	0	130	278	379	414	0
105°	0	119	253	349	382	0
115°	0	111	230	314	344	0
125°	0	96	205	277	303	0
135°	0	71	164	233	255	0
145°	0	46	115	175	200	0
155°	1	29	71	107	133	0
165°	1	15	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°	759.9	759.9	759.9	759.9	759.9
2.5°	767.1	758.9	763.0	762.0	757.8
5°	765.0	758.9	767.1	767.1	767.1
7.5°	760.9	756.8	768.1	772.2	773.3
10°	754.8	754.8	770.2	776.4	778.4
12.5°	746.5	749.6	770.2	779.4	784.6
15°	737.3	743.5	770.2	784.6	789.7
17.5°	726.0	736.3	768.1	785.6	792.8
20°	712.6	728.0	765.0	785.6	794.9
22.5°	698.2	717.7	760.9	783.6	794.9
25°	682.8	705.4	754.8	781.5	793.8
27.5°	664.3	693.1	747.6	778.4	792.8
30°	645.8	678.7	739.3	774.3	789.7
32.5°	625.2	663.2	729.1	768.1	785.6
35°	603.6	647.8	717.7	762.0	780.5
37.5°	582.0	629.3	706.4	753.7	774.3
40°	558.4	610.8	693.1	743.5	765.0
42.5°	540.9	591.3	678.7	733.2	755.8
45°	508.0	576.9	662.2	719.8	744.5
47.5°	482.3	549.1	645.8	706.4	732.1
50°	465.8	526.5	626.2	691.0	717.7
52.5°	426.7	511.1	607.7	675.6	704.4
55°	411.3	480.2	587.2	659.1	687.9
57.5°	369.2	458.6	566.6	640.6	670.4
60°	348.6	428.8	544.0	622.1	653.0
62.5°	316.7	403.1	521.3	601.5	633.4
65°	281.8	375.3	496.7	582.0	614.9
67.5°	248.8	347.6	473.0	561.4	596.4
70°	217.0	318.8	448.3	540.9	575.8
72.5°	180.0	290.0	424.7	521.3	556.3
75°	148.1	262.2	402.1	500.8	535.7
77.5°	117.2	235.5	380.5	482.3	517.2
80°	88.4	209.8	358.9	462.7	498.7
82.5°	61.7	188.2	339.3	444.2	479.2
85°	38.0	168.6	320.8	424.7	460.7
87.5°	17.5	151.2	302.3	406.2	443.2
90°	2.1	137.8	286.9	390.7	426.7
92.5°	1.0	133.7	280.7	383.6	418.5
95°	0.0	129.6	277.6	379.4	414.4
97.5°	0.0	125.5	270.4	373.3	409.3
100°	0.0	123.4	265.3	364.0	399.0
102.5°	0.0	120.3	259.1	355.8	390.7
105°	0.0	119.3	253.0	348.6	382.5
107.5°	0.0	117.2	246.8	339.3	373.3
110°	0.0	115.2	241.6	331.1	364.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	113.1	236.5	322.9	354.8
115°	0.0	111.1	230.3	313.6	344.5
117.5°	0.0	108.0	224.2	304.4	335.2
120°	0.0	103.9	218.0	296.1	324.9
122.5°	0.0	99.7	211.8	285.9	313.6
125°	0.0	95.6	204.6	276.6	303.3
127.5°	0.0	89.5	196.4	266.3	291.0
130°	0.0	83.3	186.1	256.0	279.7
132.5°	1.0	77.1	175.8	244.7	268.4
135°	0.0	71.0	164.5	233.4	255.0
137.5°	0.0	65.8	152.2	221.1	241.6
140°	0.0	59.6	139.8	206.7	228.3
142.5°	0.0	52.4	127.5	191.3	213.9
145°	0.0	46.3	115.2	174.8	199.5
147.5°	1.0	41.1	103.9	157.3	184.1
150°	1.0	37.0	92.5	139.8	166.6
152.5°	1.0	32.9	81.2	123.4	149.1
155°	1.0	28.8	71.0	106.9	132.6
157.5°	1.0	24.7	59.6	90.5	115.2
160°	1.0	21.6	49.4	76.1	98.7
162.5°	1.0	18.5	40.1	59.6	81.2
165°	1.0	15.4	31.9	44.2	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)