

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-L940-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-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

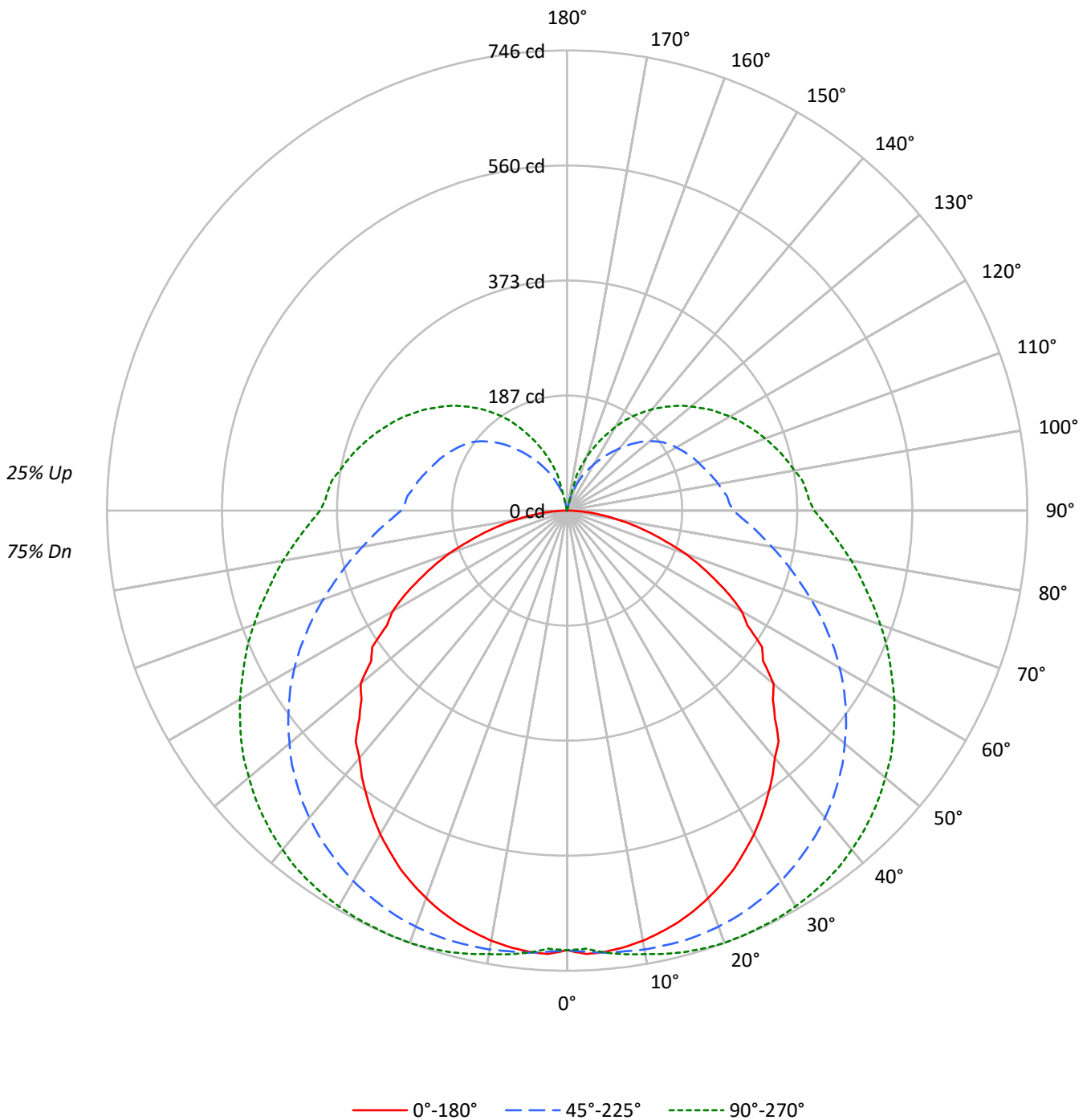
Lumens per Lamp: N/A  
Luminaire Lumens: 4105.0 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

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°	5760	5760	5760
5°	5806	5694	5652
10°	5778	5643	5620
15°	5738	5612	5631
20°	5684	5587	5641
25°	5629	5566	5651
30°	5553	5551	5681
35°	5466	5529	5719
40°	5384	5525	5758
45°	5281	5514	5803
50°	5297	5500	5848
55°	5203	5501	5919
60°	5014	5506	5999
65°	4736	5511	6110
70°	4428	5552	6283
75°	3884	5681	6536
80°	3281	5955	6958
85°	2439	6511	7573



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	1.7
10°-20°	203.1	4.9
20°-30°	322.7	7.9
30°-40°	414.2	10.1
40°-50°	467.8	11.4
50°-60°	477.3	11.6
60°-70°	442.2	10.8
70°-80°	374.4	9.1
80°-90°	298.8	7.3
90°-100°	253.7	6.2
100°-110°	226.1	5.5
110°-120°	192.6	4.7
120°-130°	152.9	3.7
130°-140°	108.5	2.6
140°-150°	64.8	1.6
150°-160°	30.2	0.7
160°-170°	7.2	0.2
170°-180°	0.0	0.0
0°-30°	594.3	14.5
0°-40°	1008.6	24.6
0°-60°	1953.7	47.6
0°-90°	3069.1	74.8
90°-120°	672.4	16.4
90°-150°	998.6	24.3
90°-180°	1036.0	25.2
0°-180°	4105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	718	712	720	720	720	68
15°	692	697	722	736	741	195
25°	640	662	708	733	745	295
35°	566	608	673	715	732	354
45°	476	541	621	675	698	370
55°	386	450	551	618	645	339
65°	264	352	466	546	577	262
75°	139	246	377	470	503	148
85°	36	158	301	398	432	39
90°	2	129	269	367	400	3
95°	0	122	260	356	389	0
105°	0	112	237	327	359	0
115°	0	104	216	294	323	0
125°	0	90	192	260	285	0
135°	0	67	154	219	239	0
145°	0	43	108	164	187	0
155°	1	27	67	100	124	0
165°	1	14	30	42	59	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°	712.8	712.8	712.8	712.8	712.8
2.5°	719.6	711.9	715.7	714.8	710.9
5°	717.7	711.9	719.6	719.6	719.6
7.5°	713.8	710.0	720.6	724.4	725.4
10°	708.0	708.0	722.5	728.3	730.2
12.5°	700.3	703.2	722.5	731.2	736.0
15°	691.6	697.4	722.5	736.0	740.8
17.5°	681.0	690.7	720.6	737.0	743.7
20°	668.5	682.9	717.7	737.0	745.6
22.5°	655.0	673.3	713.8	735.0	745.6
25°	640.5	661.7	708.0	733.1	744.7
27.5°	623.1	650.1	701.3	730.2	743.7
30°	605.8	636.6	693.6	726.3	740.8
32.5°	586.5	622.2	683.9	720.6	737.0
35°	566.2	607.7	673.3	714.8	732.1
37.5°	546.0	590.3	662.7	707.1	726.3
40°	523.8	573.0	650.1	697.4	717.7
42.5°	507.4	554.6	636.6	687.8	709.0
45°	476.5	541.1	621.2	675.2	698.4
47.5°	452.4	515.1	605.8	662.7	686.8
50°	437.0	493.9	587.4	648.2	673.3
52.5°	400.3	479.4	570.1	633.7	660.8
55°	385.8	450.5	550.8	618.3	645.3
57.5°	346.3	430.2	531.5	601.0	628.9
60°	327.0	402.2	510.3	583.6	612.5
62.5°	297.1	378.1	489.1	564.3	594.2
65°	264.3	352.1	465.9	546.0	576.8
67.5°	233.4	326.0	443.7	526.7	559.5
70°	203.5	299.0	420.6	507.4	540.2
72.5°	168.8	272.0	398.4	489.1	521.9
75°	138.9	246.0	377.2	469.8	502.6
77.5°	110.0	220.9	356.9	452.4	485.2
80°	83.0	196.8	336.6	434.1	467.8
82.5°	57.9	176.5	318.3	416.7	449.5
85°	35.7	158.2	301.0	398.4	432.1
87.5°	16.4	141.8	283.6	381.0	415.7
90°	1.9	129.3	269.1	366.6	400.3
92.5°	1.0	125.4	263.3	359.8	392.6
95°	0.0	121.5	260.4	355.9	388.7
97.5°	0.0	117.7	253.7	350.2	383.9
100°	0.0	115.8	248.9	341.5	374.3
102.5°	0.0	112.9	243.1	333.8	366.6
105°	0.0	111.9	237.3	327.0	358.8
107.5°	0.0	110.0	231.5	318.3	350.2
110°	0.0	108.0	226.7	310.6	341.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	106.1	221.9	302.9	332.8
115°	0.0	104.2	216.1	294.2	323.1
117.5°	0.0	101.3	210.3	285.5	314.5
120°	0.0	97.4	204.5	277.8	304.8
122.5°	0.0	93.6	198.7	268.2	294.2
125°	0.0	89.7	192.0	259.5	284.6
127.5°	0.0	83.9	184.2	249.8	273.0
130°	0.0	78.1	174.6	240.2	262.4
132.5°	1.0	72.3	164.9	229.6	251.8
135°	0.0	66.6	154.3	219.0	239.2
137.5°	0.0	61.7	142.8	207.4	226.7
140°	0.0	55.9	131.2	193.9	214.1
142.5°	0.0	49.2	119.6	179.4	200.6
145°	0.0	43.4	108.0	164.0	187.1
147.5°	1.0	38.6	97.4	147.6	172.7
150°	1.0	34.7	86.8	131.2	156.3
152.5°	1.0	30.9	76.2	115.8	139.9
155°	1.0	27.0	66.6	100.3	124.4
157.5°	1.0	23.2	55.9	84.9	108.0
160°	1.0	20.3	46.3	71.4	92.6
162.5°	1.0	17.4	37.6	55.9	76.2
165°	1.0	14.5	29.9	41.5	58.8
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)