

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-LD5-22SL-SLC-UNV-L930-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-22SL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

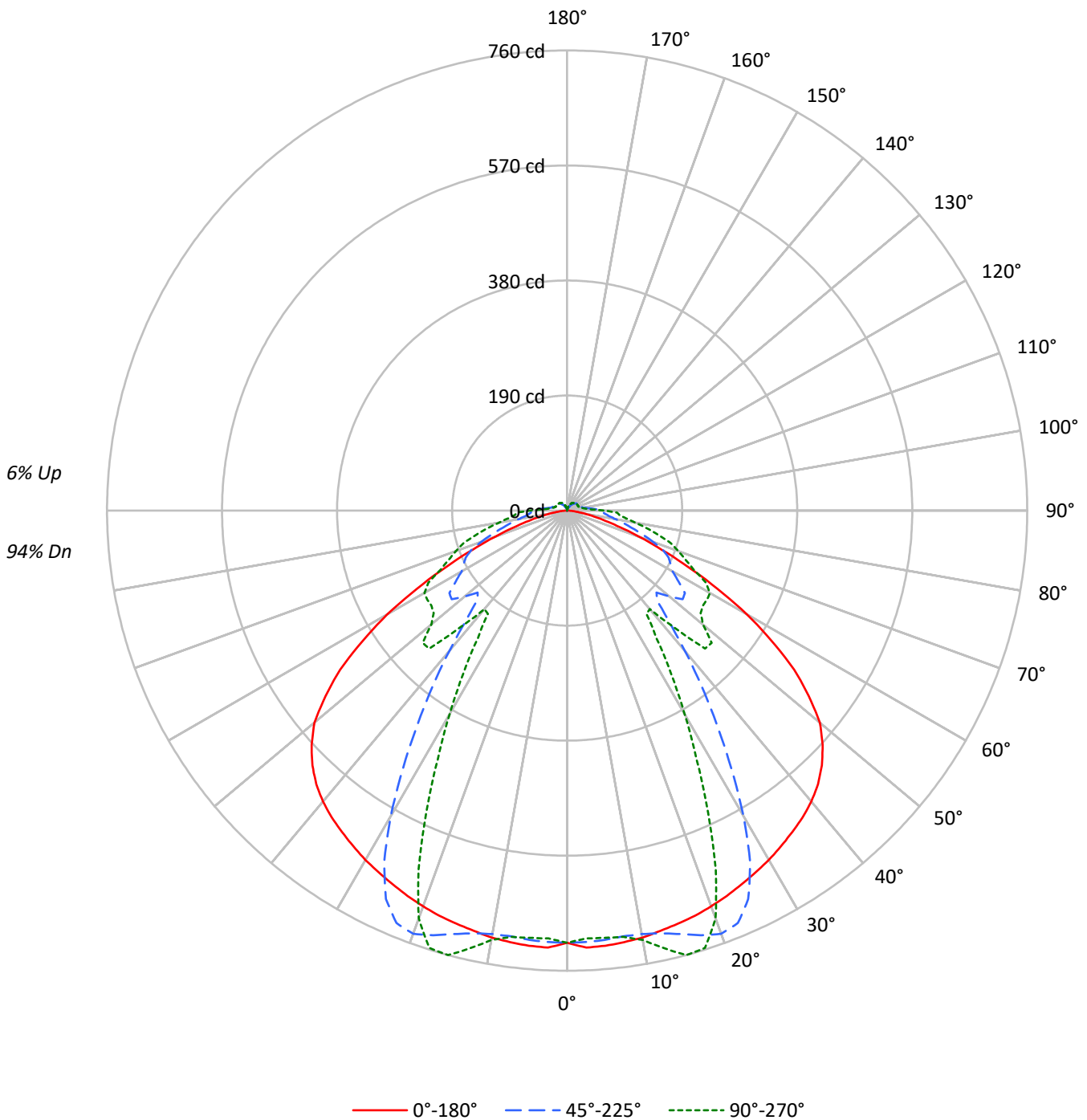
Lumens per Lamp: N/A
Luminaire Lumens: 1833.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 16
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5767	5767	5767
5°	5837	5632	5562
10°	5844	5546	5543
15°	5860	5624	5777
20°	5915	5791	5423
25°	5988	5566	4176
30°	6106	4662	2970
35°	6258	3530	2011
40°	6448	2567	1703
45°	6595	1861	2677
50°	6604	2062	2541
55°	6173	2372	2509
60°	5259	2171	2667
65°	3957	2189	2440
70°	2776	1993	2270
75°	1820	1670	2038
80°	1162	1431	1696
85°	629	1361	1523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.7
10°-20°	205.0	11.2
20°-30°	297.8	16.2
30°-40°	284.6	15.5
40°-50°	260.3	14.2
50°-60°	240.3	13.1
60°-70°	190.9	10.4
70°-80°	117.8	6.4
80°-90°	64.2	3.5
90°-100°	32.4	1.8
100°-110°	20.4	1.1
110°-120°	17.3	0.9
120°-130°	14.1	0.8
130°-140°	10.1	0.6
140°-150°	6.2	0.3
150°-160°	3.0	0.2
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	570.7	31.1
0°-40°	855.3	46.7
0°-60°	1355.9	74.0
0°-90°	1728.8	94.3
90°-120°	70.1	3.8
90°-150°	100.5	5.5
90°-180°	104.0	5.7
0°-180°	1833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	722	710	712	708	708	69
15°	706	697	724	751	760	200
25°	681	695	708	599	550	315
35°	648	638	430	296	257	406
45°	595	415	210	268	322	457
55°	458	213	238	256	274	403
65°	221	138	185	225	230	223
75°	65	74	111	147	157	74
85°	9	31	63	86	87	12
90°	0	23	56	67	62	0
95°	0	22	39	34	32	0
105°	0	20	24	22	22	0
115°	0	16	23	20	20	0
125°	0	13	20	20	19	0
135°	0	9	16	18	17	0
145°	0	6	11	14	16	0
155°	1	4	7	9	11	0
165°	1	2	4	4	6	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°	713.6	713.6	713.6	713.6	713.6
2.5°	722.4	712.0	713.3	711.0	707.3
5°	721.5	710.4	711.7	707.9	708.2
7.5°	718.9	707.6	709.1	708.5	710.1
10°	716.1	704.1	710.1	715.5	720.2
12.5°	711.0	700.3	714.8	730.6	740.4
15°	706.3	696.8	724.0	750.8	760.0
17.5°	701.6	695.6	735.4	758.7	757.5
20°	695.6	694.9	743.9	736.0	716.7
22.5°	688.9	695.2	737.3	679.5	641.5
25°	681.3	694.6	707.9	599.2	550.3
27.5°	673.8	691.8	654.5	511.4	463.1
30°	666.2	684.2	582.5	431.2	387.3
32.5°	657.3	667.8	504.1	360.1	319.7
35°	648.2	637.8	429.9	296.0	257.4
37.5°	638.7	594.5	363.3	239.8	215.1
40°	627.3	540.2	302.0	205.6	212.3
42.5°	613.1	478.9	248.0	215.7	261.9
45°	595.1	415.1	209.7	267.5	322.2
47.5°	572.4	353.8	200.3	306.4	323.5
50°	544.9	297.6	220.2	293.8	292.5
52.5°	503.2	250.8	240.4	267.9	278.0
55°	457.7	212.9	237.5	255.5	273.6
57.5°	400.2	187.3	218.0	253.0	273.9
60°	343.0	170.3	201.2	252.7	272.3
62.5°	279.9	154.8	192.7	246.7	258.4
65°	220.8	138.0	185.1	224.9	230.3
67.5°	169.3	121.0	171.8	200.6	211.3
70°	127.6	104.2	151.0	181.9	195.2
72.5°	91.9	88.4	129.5	165.5	179.4
75°	65.1	73.6	110.9	146.9	156.7
77.5°	44.9	60.0	95.1	126.4	134.2
80°	29.4	48.0	80.9	108.7	114.0
82.5°	17.7	38.5	70.1	95.1	97.9
85°	9.2	31.3	62.9	85.6	86.9
87.5°	2.8	26.2	58.8	81.2	82.8
90°	0.3	23.4	56.2	66.7	61.6
92.5°	0.0	22.1	48.6	45.5	40.7
95°	0.0	21.8	38.9	34.4	32.5
97.5°	0.0	21.2	31.9	28.7	27.8
100°	0.0	20.5	27.5	25.3	25.0
102.5°	0.0	20.2	25.0	23.1	22.7
105°	0.0	19.6	24.0	21.8	21.5
107.5°	0.0	18.6	23.4	21.2	20.5
110°	0.0	17.7	23.4	20.8	19.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.7	23.4	20.5	19.6
115°	0.0	16.1	23.1	20.5	19.6
117.5°	0.3	15.5	22.7	20.5	19.6
120°	0.0	14.8	22.1	20.5	19.3
122.5°	0.3	13.9	21.5	20.2	19.3
125°	0.3	13.0	20.5	19.9	19.0
127.5°	0.3	12.0	19.6	19.3	18.3
130°	0.3	11.1	18.6	19.0	18.0
132.5°	0.3	10.1	17.4	18.3	17.7
135°	0.3	9.2	16.4	18.0	17.4
137.5°	0.3	8.2	15.2	17.1	17.1
140°	0.3	7.3	13.9	16.4	16.7
142.5°	0.3	6.6	12.6	15.8	16.1
145°	0.3	5.7	11.4	14.5	15.5
147.5°	0.3	5.1	10.1	13.3	14.5
150°	0.3	4.4	8.8	12.0	13.3
152.5°	0.3	3.8	7.9	10.4	12.3
155°	0.6	3.5	6.9	9.2	11.1
157.5°	0.6	2.8	5.7	7.9	9.5
160°	0.6	2.5	5.1	6.6	8.5
162.5°	0.6	2.2	4.1	5.7	7.3
165°	0.6	1.9	3.5	4.4	6.0
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)