

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: P284453

Luminaire Tested: **2SNLED-LD5-16SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284453
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: 2SNLED-LD5-16SL-SLW-UNV-L830-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1577.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

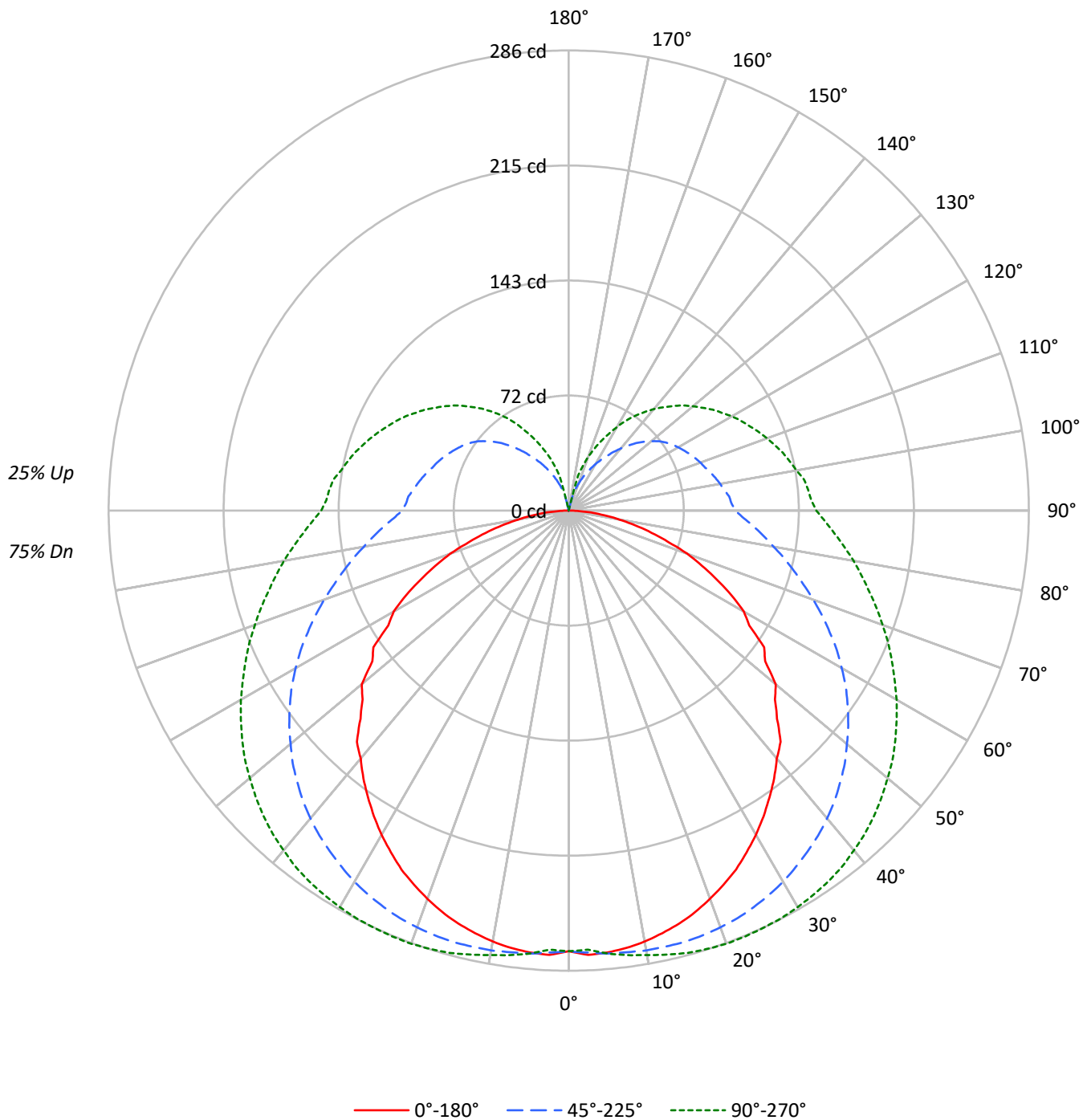
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	4427	4427	4427
5°	4449	4366	4342
10°	4415	4320	4318
15°	4373	4289	4327
20°	4319	4262	4335
25°	4264	4239	4342
30°	4191	4218	4365
35°	4111	4195	4395
40°	4033	4183	4423
45°	3939	4164	4459
50°	3929	4145	4494
55°	3834	4134	4547
60°	3663	4124	4609
65°	3423	4114	4695
70°	3154	4126	4827
75°	2704	4198	5022
80°	2192	4367	5345
85°	1482	4723	5818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	1.7
10°-20°	78.0	4.9
20°-30°	124.0	7.9
30°-40°	159.1	10.1
40°-50°	179.7	11.4
50°-60°	183.4	11.6
60°-70°	169.9	10.8
70°-80°	143.8	9.1
80°-90°	114.8	7.3
90°-100°	97.5	6.2
100°-110°	86.9	5.5
110°-120°	74.0	4.7
120°-130°	58.8	3.7
130°-140°	41.7	2.6
140°-150°	24.9	1.6
150°-160°	11.6	0.7
160°-170°	2.8	0.2
170°-180°	0.0	0.0
0°-30°	228.3	14.5
0°-40°	387.5	24.6
0°-60°	750.5	47.6
0°-90°	1179.0	74.8
90°-120°	258.3	16.4
90°-150°	383.6	24.3
90°-180°	398.0	25.2
0°-180°	1577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	274	274	274	274	274	
5°	276	274	276	276	276	26
15°	266	268	278	283	285	75
25°	246	254	272	282	286	113
35°	218	234	259	275	281	136
45°	183	208	239	259	268	142
55°	148	173	212	238	248	130
65°	102	135	179	210	222	101
75°	53	94	145	180	193	57
85°	14	61	116	153	166	15
90°	1	50	103	141	154	1
95°	0	47	100	137	149	0
105°	0	43	91	126	138	0
115°	0	40	83	113	124	0
125°	0	34	74	100	109	0
135°	0	26	59	84	92	0
145°	0	17	42	63	72	0
155°	0	10	26	38	48	0
165°	0	6	12	16	23	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°	273.9	273.9	273.9	273.9	273.9
2.5°	276.4	273.5	275.0	274.6	273.1
5°	275.7	273.5	276.4	276.4	276.4
7.5°	274.2	272.7	276.8	278.3	278.7
10°	272.0	272.0	277.6	279.8	280.5
12.5°	269.0	270.1	277.6	280.9	282.7
15°	265.7	267.9	277.6	282.7	284.6
17.5°	261.6	265.3	276.8	283.1	285.7
20°	256.8	262.4	275.7	283.1	286.5
22.5°	251.6	258.7	274.2	282.4	286.5
25°	246.1	254.2	272.0	281.6	286.1
27.5°	239.4	249.8	269.4	280.5	285.7
30°	232.7	244.6	266.4	279.0	284.6
32.5°	225.3	239.0	262.7	276.8	283.1
35°	217.5	233.5	258.7	274.6	281.3
37.5°	209.7	226.8	254.6	271.6	279.0
40°	201.2	220.1	249.8	267.9	275.7
42.5°	194.9	213.1	244.6	264.2	272.4
45°	183.1	207.9	238.6	259.4	268.3
47.5°	173.8	197.9	232.7	254.6	263.8
50°	167.9	189.7	225.7	249.0	258.7
52.5°	153.8	184.2	219.0	243.5	253.8
55°	148.2	173.1	211.6	237.5	247.9
57.5°	133.0	165.3	204.2	230.9	241.6
60°	125.6	154.5	196.0	224.2	235.3
62.5°	114.1	145.3	187.9	216.8	228.3
65°	101.5	135.3	179.0	209.7	221.6
67.5°	89.7	125.3	170.5	202.3	214.9
70°	78.2	114.9	161.6	194.9	207.5
72.5°	64.8	104.5	153.0	187.9	200.5
75°	53.4	94.5	144.9	180.5	193.1
77.5°	42.2	84.9	137.1	173.8	186.4
80°	31.9	75.6	129.3	166.8	179.7
82.5°	22.2	67.8	122.3	160.1	172.7
85°	13.7	60.8	115.6	153.0	166.0
87.5°	6.3	54.5	108.9	146.4	159.7
90°	0.7	49.7	103.4	140.8	153.8
92.5°	0.4	48.2	101.2	138.2	150.8
95°	0.0	46.7	100.1	136.7	149.3
97.5°	0.0	45.2	97.5	134.5	147.5
100°	0.0	44.5	95.6	131.2	143.8
102.5°	0.0	43.4	93.4	128.2	140.8
105°	0.0	43.0	91.2	125.6	137.9
107.5°	0.0	42.2	88.9	122.3	134.5
110°	0.0	41.5	87.1	119.3	131.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	40.8	85.2	116.4	127.8
115°	0.0	40.0	83.0	113.0	124.1
117.5°	0.0	38.9	80.8	109.7	120.8
120°	0.0	37.4	78.6	106.7	117.1
122.5°	0.0	35.9	76.3	103.0	113.0
125°	0.0	34.5	73.7	99.7	109.3
127.5°	0.0	32.2	70.8	96.0	104.9
130°	0.0	30.0	67.1	92.3	100.8
132.5°	0.4	27.8	63.4	88.2	96.7
135°	0.0	25.6	59.3	84.1	91.9
137.5°	0.0	23.7	54.8	79.7	87.1
140°	0.0	21.5	50.4	74.5	82.3
142.5°	0.0	18.9	46.0	68.9	77.1
145°	0.0	16.7	41.5	63.0	71.9
147.5°	0.4	14.8	37.4	56.7	66.3
150°	0.4	13.3	33.4	50.4	60.0
152.5°	0.4	11.9	29.3	44.5	53.7
155°	0.4	10.4	25.6	38.5	47.8
157.5°	0.4	8.9	21.5	32.6	41.5
160°	0.4	7.8	17.8	27.4	35.6
162.5°	0.4	6.7	14.5	21.5	29.3
165°	0.4	5.6	11.5	15.9	22.6
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)