

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: P284654

Luminaire Tested: **4SNLED-LD5-19SL-SLW-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284654
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-LD5-19SL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1611.0 lumens
Efficiency: N/A
Efficacy: 100.7 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

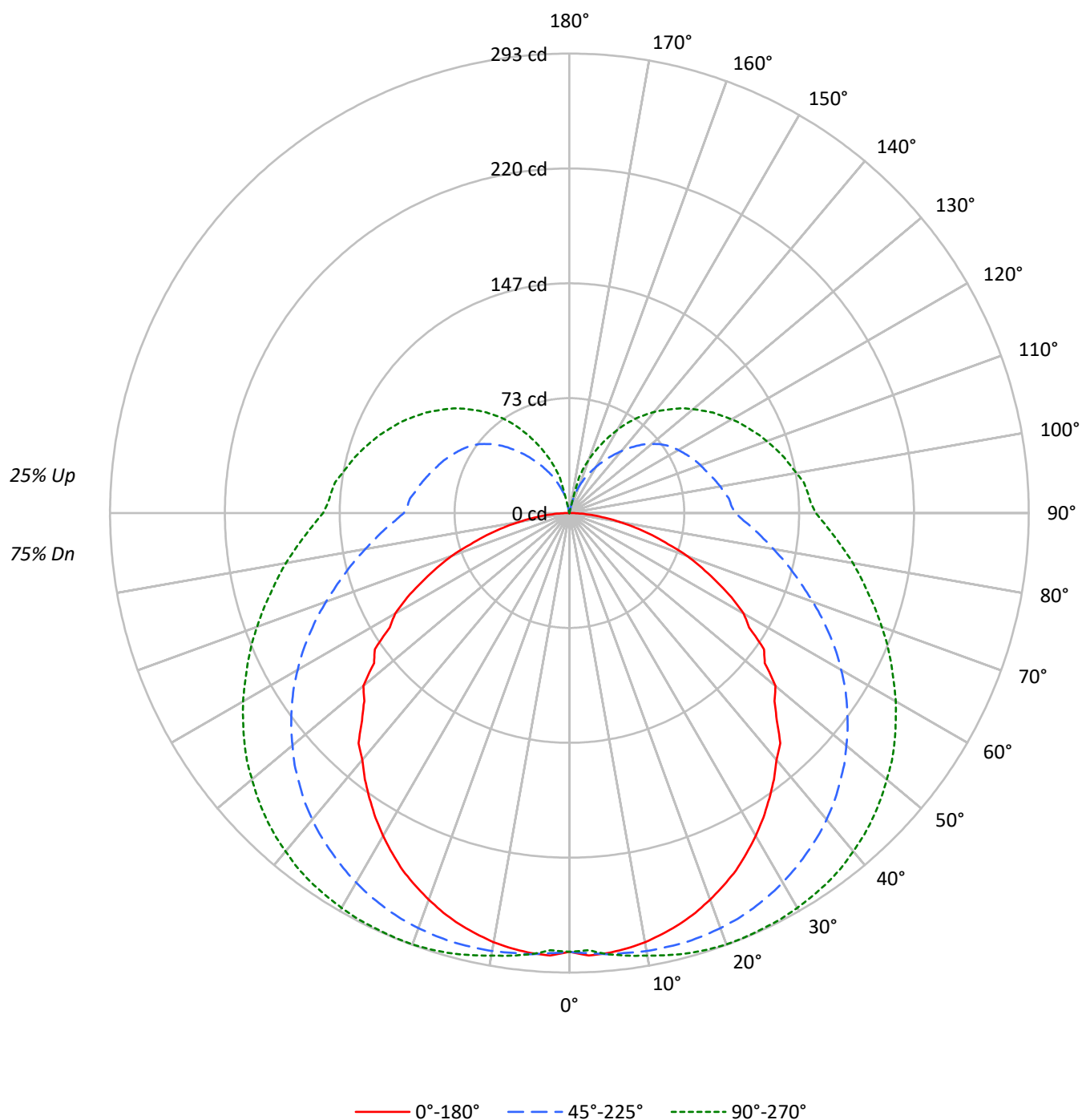
Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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			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°	2261	2261	2261
5°	2278	2235	2218
10°	2268	2215	2205
15°	2252	2203	2210
20°	2230	2192	2215
25°	2209	2185	2218
30°	2179	2178	2229
35°	2145	2170	2245
40°	2112	2169	2259
45°	2072	2163	2278
50°	2079	2159	2296
55°	2042	2159	2322
60°	1967	2160	2355
65°	1858	2163	2398
70°	1739	2179	2466
75°	1527	2229	2566
80°	1289	2337	2731
85°	956	2555	2972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	1.7
10°-20°	79.7	4.9
20°-30°	126.7	7.9
30°-40°	162.6	10.1
40°-50°	183.6	11.4
50°-60°	187.3	11.6
60°-70°	173.5	10.8
70°-80°	146.9	9.1
80°-90°	117.3	7.3
90°-100°	99.6	6.2
100°-110°	88.7	5.5
110°-120°	75.6	4.7
120°-130°	60.0	3.7
130°-140°	42.6	2.6
140°-150°	25.4	1.6
150°-160°	11.9	0.7
160°-170°	2.8	0.2
170°-180°	0.0	0.0
0°-30°	233.3	14.5
0°-40°	395.8	24.6
0°-60°	766.7	47.6
0°-90°	1204.4	74.8
90°-120°	263.9	16.4
90°-150°	391.9	24.3
90°-180°	407.0	25.3
0°-180°	1611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	280	280	280	280	280	
5°	282	279	282	282	282	27
15°	271	274	284	289	291	77
25°	251	260	278	288	292	116
35°	222	238	264	280	287	139
45°	187	212	244	265	274	145
55°	151	177	216	243	253	133
65°	104	138	183	214	226	103
75°	55	96	148	184	197	58
85°	14	62	118	156	170	15
90°	1	51	106	144	157	1
95°	0	48	102	140	152	0
105°	0	44	93	128	141	0
115°	0	41	85	115	127	0
125°	0	35	75	102	112	0
135°	0	26	61	86	94	0
145°	0	17	42	64	73	0
155°	0	11	26	39	49	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°	279.8	279.8	279.8	279.8	279.8
2.5°	282.4	279.4	280.9	280.5	279.0
5°	281.6	279.4	282.4	282.4	282.4
7.5°	280.1	278.6	282.8	284.3	284.7
10°	277.9	277.9	283.6	285.8	286.5
12.5°	274.8	275.9	283.6	287.0	288.8
15°	271.4	273.7	283.6	288.8	290.7
17.5°	267.2	271.0	282.8	289.2	291.9
20°	262.3	268.1	281.6	289.2	292.7
22.5°	257.0	264.3	280.1	288.5	292.7
25°	251.4	259.7	277.9	287.7	292.3
27.5°	244.6	255.2	275.2	286.5	291.9
30°	237.7	249.9	272.1	285.0	290.7
32.5°	230.2	244.1	268.4	282.8	289.2
35°	222.2	238.5	264.3	280.5	287.4
37.5°	214.2	231.7	260.1	277.5	285.0
40°	205.5	224.8	255.2	273.7	281.6
42.5°	199.1	217.7	249.9	269.9	278.3
45°	187.0	212.4	243.7	265.0	274.1
47.5°	177.5	202.2	237.7	260.1	269.5
50°	171.5	193.8	230.6	254.4	264.3
52.5°	157.1	188.2	223.7	248.7	259.3
55°	151.4	176.8	216.2	242.6	253.2
57.5°	135.9	168.9	208.6	235.9	246.8
60°	128.3	157.8	200.2	229.0	240.4
62.5°	116.6	148.4	191.9	221.5	233.2
65°	103.7	138.2	182.9	214.2	226.4
67.5°	91.6	128.0	174.2	206.7	219.5
70°	79.9	117.4	165.1	199.1	212.0
72.5°	66.2	106.8	156.3	191.9	204.8
75°	54.6	96.5	148.0	184.4	197.3
77.5°	43.1	86.7	140.1	177.5	190.4
80°	32.6	77.2	132.1	170.4	183.6
82.5°	22.7	69.3	124.9	163.5	176.4
85°	14.0	62.1	118.1	156.3	169.6
87.5°	6.4	55.7	111.2	149.6	163.1
90°	0.7	50.8	105.6	143.8	157.1
92.5°	0.4	49.2	103.4	141.2	154.0
95°	0.0	47.7	102.3	139.6	152.5
97.5°	0.0	46.2	99.6	137.4	150.7
100°	0.0	45.5	97.7	134.0	146.9
102.5°	0.0	44.3	95.4	131.0	143.8
105°	0.0	43.9	93.2	128.3	140.9
107.5°	0.0	43.1	90.8	124.9	137.4
110°	0.0	42.4	89.0	121.9	134.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	41.7	87.0	118.9	130.6
115°	0.0	40.9	84.8	115.4	126.8
117.5°	0.0	39.7	82.5	112.1	123.4
120°	0.0	38.2	80.3	109.0	119.6
122.5°	0.0	36.7	77.9	105.2	115.4
125°	0.0	35.2	75.3	101.8	111.7
127.5°	0.0	32.9	72.3	98.1	107.2
130°	0.0	30.6	68.5	94.3	103.0
132.5°	0.4	28.4	64.8	90.1	98.8
135°	0.0	26.2	60.6	85.9	93.9
137.5°	0.0	24.2	56.0	81.4	89.0
140°	0.0	22.0	51.5	76.1	84.1
142.5°	0.0	19.3	47.0	70.4	78.8
145°	0.0	17.1	42.4	64.4	73.4
147.5°	0.4	15.1	38.2	57.9	67.7
150°	0.4	13.6	34.1	51.5	61.3
152.5°	0.4	12.2	29.9	45.5	54.9
155°	0.4	10.6	26.2	39.3	48.8
157.5°	0.4	9.1	22.0	33.3	42.4
160°	0.4	8.0	18.2	28.0	36.4
162.5°	0.4	6.8	14.8	22.0	29.9
165°	0.4	5.7	11.7	16.2	23.1
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)