

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: P284615

Luminaire Tested: **4SNLED-LD5-19SL-SLW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284615
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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

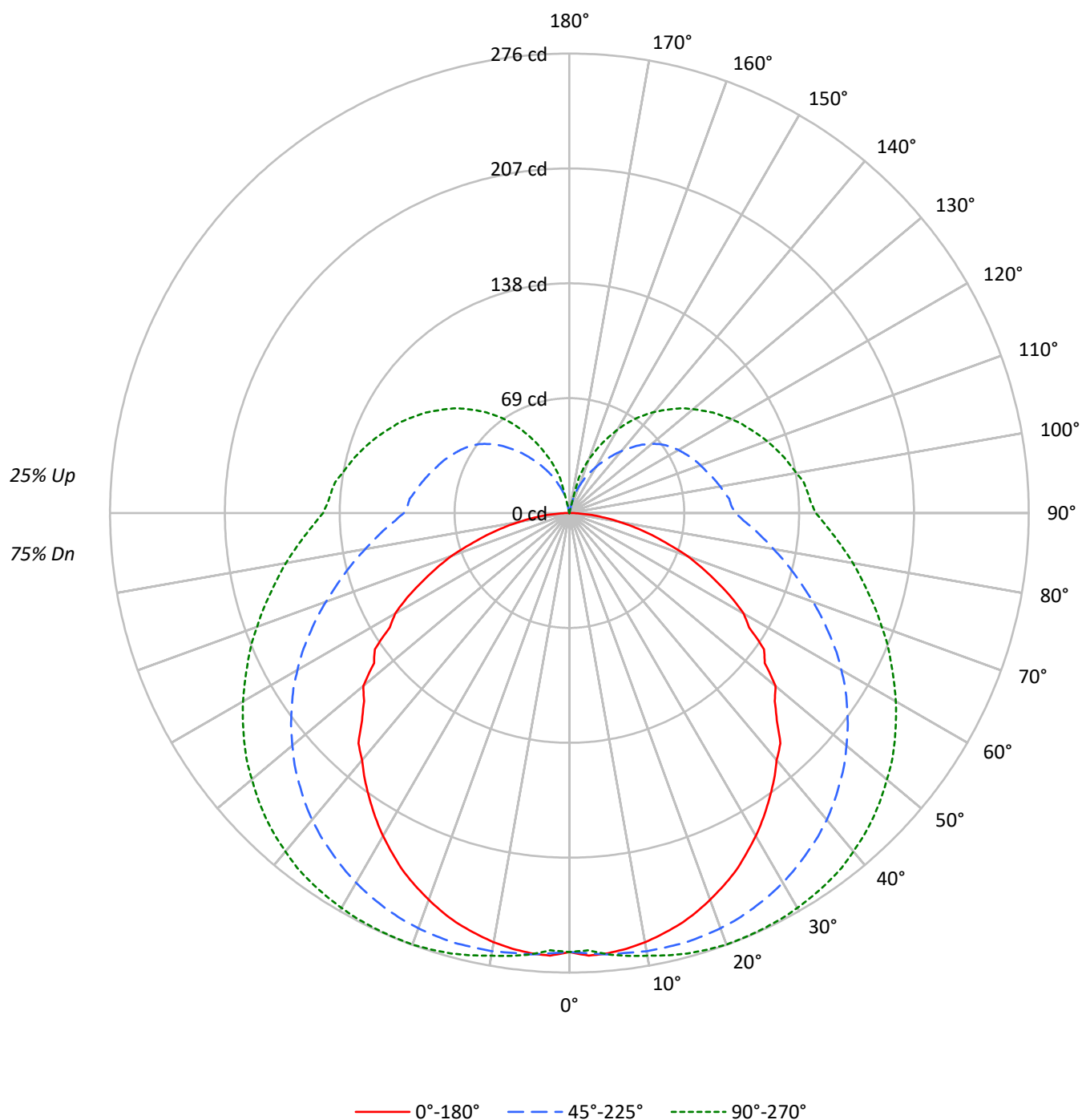
Input Watts (W): 16
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	2130	2130	2130
5°	2147	2106	2090
10°	2136	2087	2078
15°	2122	2076	2082
20°	2102	2066	2087
25°	2082	2058	2090
30°	2053	2052	2101
35°	2022	2045	2115
40°	1991	2044	2129
45°	1953	2039	2146
50°	1959	2035	2163
55°	1925	2034	2188
60°	1854	2036	2218
65°	1751	2038	2260
70°	1638	2054	2323
75°	1437	2101	2418
80°	1214	2202	2573
85°	902	2408	2801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	1.7
10°-20°	75.1	4.9
20°-30°	119.4	7.9
30°-40°	153.2	10.1
40°-50°	173.0	11.4
50°-60°	176.5	11.6
60°-70°	163.5	10.8
70°-80°	138.5	9.1
80°-90°	110.5	7.3
90°-100°	93.8	6.2
100°-110°	83.6	5.5
110°-120°	71.2	4.7
120°-130°	56.5	3.7
130°-140°	40.1	2.6
140°-150°	24.0	1.6
150°-160°	11.2	0.7
160°-170°	2.7	0.2
170°-180°	0.0	0.0
0°-30°	219.8	14.5
0°-40°	373.0	24.6
0°-60°	722.5	47.6
0°-90°	1134.9	74.8
90°-120°	248.6	16.4
90°-150°	369.3	24.3
90°-180°	383.0	25.2
0°-180°	1518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	264	264	264	264	264	
5°	265	263	266	266	266	25
15°	256	258	267	272	274	72
25°	237	245	262	271	275	109
35°	209	225	249	264	271	131
45°	176	200	230	250	258	137
55°	143	167	204	229	239	125
65°	98	130	172	202	213	97
75°	51	91	140	174	186	55
85°	13	58	111	147	160	14
90°	1	48	100	136	148	1
95°	0	45	96	132	144	0
105°	0	41	88	121	133	0
115°	0	38	80	109	120	0
125°	0	33	71	96	105	0
135°	0	25	57	81	88	0
145°	0	16	40	61	69	0
155°	0	10	25	37	46	0
165°	0	5	11	15	22	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°	263.6	263.6	263.6	263.6	263.6
2.5°	266.1	263.3	264.7	264.3	262.9
5°	265.4	263.3	266.1	266.1	266.1
7.5°	263.9	262.5	266.4	267.9	268.3
10°	261.8	261.8	267.2	269.3	270.0
12.5°	258.9	260.0	267.2	270.4	272.1
15°	255.8	257.9	267.2	272.1	273.9
17.5°	251.8	255.4	266.4	272.5	275.0
20°	247.2	252.6	265.4	272.5	275.8
22.5°	242.2	249.0	263.9	271.8	275.8
25°	236.9	244.7	261.8	271.1	275.4
27.5°	230.4	240.5	259.3	270.0	275.0
30°	224.0	235.4	256.4	268.6	273.9
32.5°	216.9	230.1	252.9	266.4	272.5
35°	209.4	224.8	249.0	264.3	270.8
37.5°	201.9	218.3	245.1	261.4	268.6
40°	193.7	211.9	240.5	257.9	265.4
42.5°	187.6	205.1	235.4	254.3	262.2
45°	176.2	200.1	229.7	249.7	258.3
47.5°	167.3	190.5	224.0	245.1	253.9
50°	161.6	182.6	217.3	239.7	249.0
52.5°	148.0	177.3	210.8	234.4	244.3
55°	142.7	166.6	203.7	228.6	238.6
57.5°	128.0	159.1	196.6	222.3	232.6
60°	120.9	148.7	188.7	215.8	226.5
62.5°	109.8	139.9	180.9	208.7	219.8
65°	97.7	130.2	172.3	201.9	213.3
67.5°	86.3	120.6	164.1	194.7	206.9
70°	75.3	110.6	155.6	187.6	199.7
72.5°	62.4	100.6	147.3	180.9	193.0
75°	51.4	91.0	139.5	173.7	185.9
77.5°	40.6	81.7	132.0	167.3	179.4
80°	30.7	72.8	124.5	160.6	173.0
82.5°	21.4	65.3	117.7	154.1	166.2
85°	13.2	58.5	111.3	147.3	159.8
87.5°	6.1	52.5	104.8	140.9	153.7
90°	0.7	47.8	99.5	135.5	148.0
92.5°	0.4	46.4	97.4	133.0	145.2
95°	0.0	45.0	96.4	131.6	143.7
97.5°	0.0	43.5	93.9	129.5	142.0
100°	0.0	42.8	92.0	126.3	138.4
102.5°	0.0	41.8	89.9	123.4	135.5
105°	0.0	41.4	87.8	120.9	132.7
107.5°	0.0	40.6	85.6	117.7	129.5
110°	0.0	39.9	83.8	114.8	126.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.3	82.0	112.0	123.0
115°	0.0	38.5	79.9	108.8	119.5
117.5°	0.0	37.4	77.8	105.6	116.3
120°	0.0	36.0	75.7	102.7	112.7
122.5°	0.0	34.6	73.4	99.1	108.8
125°	0.0	33.2	70.9	96.0	105.2
127.5°	0.0	31.0	68.1	92.4	101.0
130°	0.0	28.9	64.6	88.8	97.0
132.5°	0.4	26.8	61.0	84.9	93.1
135°	0.0	24.6	57.1	81.0	88.5
137.5°	0.0	22.8	52.7	76.7	83.8
140°	0.0	20.7	48.5	71.7	79.2
142.5°	0.0	18.2	44.3	66.3	74.2
145°	0.0	16.1	39.9	60.6	69.2
147.5°	0.4	14.2	36.0	54.6	63.8
150°	0.4	12.8	32.1	48.5	57.8
152.5°	0.4	11.5	28.2	42.8	51.7
155°	0.4	10.0	24.6	37.1	46.0
157.5°	0.4	8.6	20.7	31.4	39.9
160°	0.4	7.5	17.1	26.4	34.3
162.5°	0.4	6.4	14.0	20.7	28.2
165°	0.4	5.4	11.1	15.3	21.8
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)