

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P561822

Luminaire Tested: **SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561822
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7335.7 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

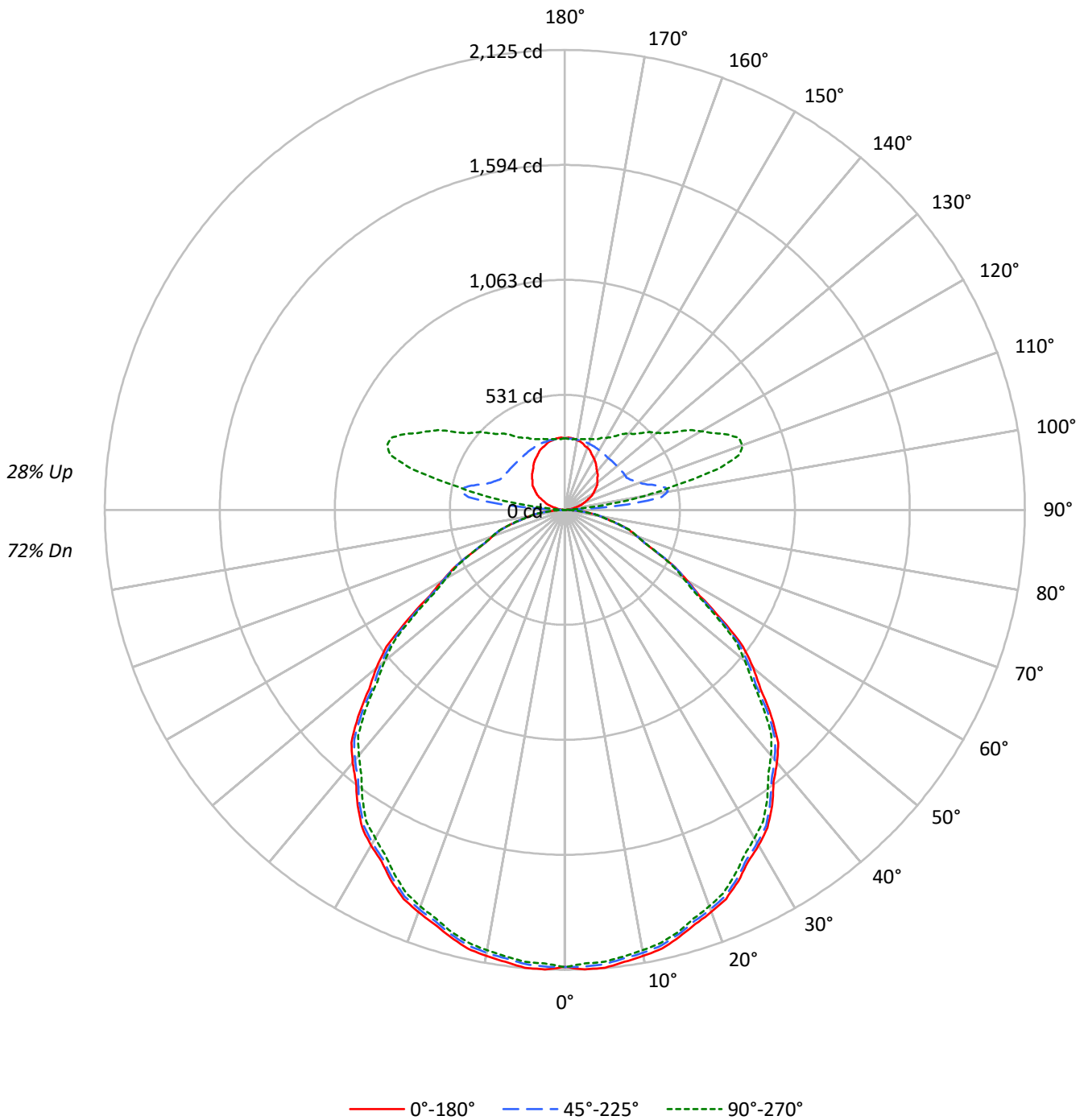
Input Watts (W): 69.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72		
1	103	99	95	91	98	94	90	87	85	82	80	76	74	72	68	67	65	61		
2	94	87	81	75	89	83	77	72	75	70	67	67	64	61	60	58	56	52		
3	86	77	69	63	82	73	66	61	66	61	56	60	56	52	54	51	48	45		
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	48	45	42	39		
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	44	40	36	34		
6	67	55	47	41	64	53	45	40	48	42	37	44	39	35	40	36	32	30		
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	36	32	29	26		
8	58	45	38	32	55	44	36	31	40	34	29	37	31	28	34	29	26	24		
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	21		
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19489	19489	19489
5°	19665	19513	19412
10°	19602	19466	19364
15°	19516	19395	19291
20°	19418	19293	19150
25°	19281	19152	18930
30°	19073	18938	18666
35°	18791	18628	18361
40°	18363	18166	17837
45°	17615	17307	16950
50°	16295	15904	15591
55°	14223	13901	13608
60°	11985	11885	11649
65°	10368	10407	10326
70°	9522	9571	9571
75°	9144	9144	9211
80°	8602	8698	8602
85°	6934	7707	7707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	2.7
10°-20°	571.5	7.8
20°-30°	862.0	11.8
30°-40°	1027.1	14.0
40°-50°	1012.6	13.8
50°-60°	773.9	10.5
60°-70°	478.9	6.5
70°-80°	272.0	3.7
80°-90°	82.8	1.1
90°-100°	150.8	2.1
100°-110°	428.9	5.8
110°-120°	411.0	5.6
120°-130°	325.3	4.4
130°-140°	261.1	3.6
140°-150°	204.4	2.8
150°-160°	149.6	2.0
160°-170°	92.6	1.3
170°-180°	31.4	0.4
0°-30°	1633.3	22.3
0°-40°	2660.4	36.3
0°-60°	4447.0	60.6
0°-90°	5280.6	72.0
90°-120°	990.7	13.5
90°-150°	1781.4	24.3
90°-180°	2055.0	28.0
0°-180°	7335.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2123	2100	2107	2100	2096	201
15°	2043	2022	2030	2023	2020	577
25°	1894	1871	1881	1861	1860	872
35°	1668	1649	1654	1632	1630	1041
45°	1350	1332	1326	1303	1299	1034
55°	884	870	864	850	846	792
65°	475	471	477	473	473	481
75°	256	256	256	258	258	271
85°	66	69	73	73	73	76
90°	0	0	0	0	0	3
95°	16	65	292	101	62	19
105°	67	101	437	772	734	71
115°	124	150	332	702	825	122
125°	175	194	316	525	628	157
135°	214	232	313	444	501	165
145°	252	265	315	384	418	158
155°	288	295	323	347	361	133
165°	318	320	326	334	338	90
175°	333	332	330	328	326	32
180°	331	331	331	331	331	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2112.4	2112.4	2112.4	2112.4	2112.4
2.5°	2125.4	2106.9	2112.4	2107.8	2097.8
5°	2123.3	2100.1	2106.9	2099.5	2096.0
7.5°	2106.9	2084.1	2090.9	2083.6	2081.4
10°	2092.3	2071.0	2077.8	2070.4	2066.9
12.5°	2076.3	2053.6	2061.8	2053.0	2049.4
15°	2043.2	2021.9	2030.5	2023.1	2019.6
17.5°	2006.8	1984.1	1992.6	1984.2	1979.5
20°	1977.7	1956.4	1965.0	1952.2	1950.4
22.5°	1945.7	1924.3	1933.0	1915.8	1915.5
25°	1894.0	1870.9	1881.3	1861.2	1859.5
27.5°	1832.5	1811.2	1819.8	1799.4	1797.2
30°	1790.3	1769.0	1777.6	1755.7	1752.1
32.5°	1742.3	1722.4	1729.5	1707.7	1705.5
35°	1668.4	1648.8	1653.9	1632.0	1630.2
37.5°	1584.4	1566.6	1569.4	1545.4	1543.6
40°	1524.7	1506.9	1508.3	1482.8	1481.0
42.5°	1459.2	1441.4	1439.9	1414.4	1412.6
45°	1350.0	1332.2	1326.4	1302.6	1299.1
47.5°	1225.6	1207.8	1196.8	1177.5	1175.0
50°	1135.3	1117.5	1108.0	1091.5	1086.2
52.5°	1037.8	1020.0	1012.0	996.9	991.6
55°	884.2	870.0	864.2	849.6	846.0
57.5°	738.3	728.7	727.0	712.8	711.4
60°	649.5	644.2	644.1	631.3	631.3
62.5°	573.8	569.9	572.8	564.4	562.9
65°	474.9	471.3	476.7	473.0	473.0
67.5°	396.6	396.6	399.9	398.5	398.5
70°	353.0	353.0	354.8	354.8	354.8
72.5°	313.7	312.2	316.9	316.9	315.5
75°	256.5	256.5	256.5	258.4	258.4
77.5°	199.8	200.1	201.6	201.2	199.8
80°	161.9	163.7	163.7	161.9	161.9
82.5°	124.1	125.9	125.9	125.5	124.1
85°	65.5	69.1	72.8	72.8	72.8
87.5°	18.9	24.6	29.1	29.1	27.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.7	61.9	18.0	13.6
95°	16.4	64.9	291.8	101.0	62.3
97.5°	30.1	76.1	449.5	321.6	220.4
100°	39.6	82.7	483.7	489.9	377.4
102.5°	50.2	89.8	476.1	627.1	528.8
105°	66.7	101.1	437.1	772.1	734.0
107.5°	83.4	114.3	391.6	813.0	847.0
110°	95.0	123.9	365.4	797.4	873.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.0	133.5	347.8	760.4	869.1
115°	123.9	149.7	331.5	702.2	824.6
117.5°	139.6	163.9	321.8	638.6	768.2
120°	152.2	172.5	320.8	602.2	726.4
122.5°	162.3	182.6	318.3	570.3	685.7
125°	174.8	193.9	316.4	525.0	627.7
127.5°	188.6	206.4	315.4	497.9	582.5
130°	195.6	213.4	313.8	479.1	552.9
132.5°	203.2	220.5	313.8	464.3	532.2
135°	213.8	231.7	312.6	443.5	501.3
137.5°	223.9	241.3	312.5	425.8	475.7
140°	231.5	249.3	312.0	411.2	459.1
142.5°	240.0	254.9	313.5	399.5	442.5
145°	252.2	265.1	315.1	383.8	418.3
147.5°	262.7	275.2	317.9	368.0	397.8
150°	271.7	280.3	318.9	362.8	383.7
152.5°	278.8	287.9	319.9	355.7	375.1
155°	288.1	294.8	322.7	346.9	361.0
157.5°	299.6	303.7	323.3	342.9	353.0
160°	305.7	308.7	325.8	339.8	348.4
162.5°	309.2	312.8	326.3	337.3	343.9
165°	318.3	319.5	326.4	333.5	338.4
167.5°	324.4	323.3	329.3	332.5	334.5
170°	326.4	325.8	328.3	329.0	331.5
172.5°	331.0	328.9	329.8	328.0	329.9
175°	333.3	331.5	330.2	328.3	325.8
177.5°	334.4	331.4	329.8	327.8	328.3
180°	330.8	330.8	330.8	330.8	330.8

(END OF REPORT)