

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: P562030

Luminaire Tested: **SQ4-PR1-100U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562030
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-PR1-100U-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 1000 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: 9920.2 lumens
Efficiency: N/A
Efficacy: 112.9 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: General Diffuse

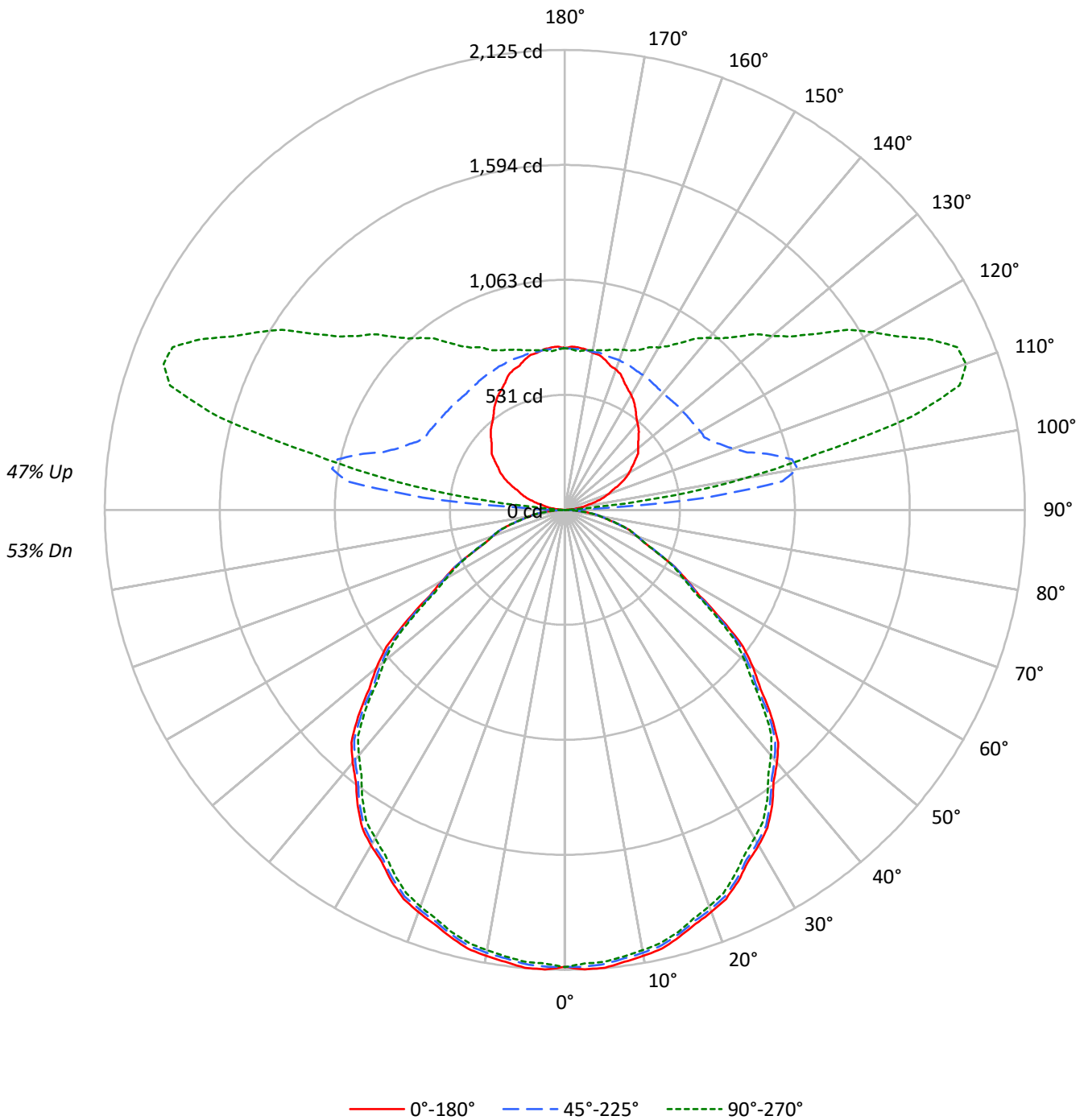
Input Watts (W): 87.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	87	91	88	85	82	75	73	71	63	62	60	53	52	51	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	83	73	66	60	76	68	62	57	59	54	50	50	46	43	42	39	37	33
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	37	34	32	29
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	42	36	42	37	32	36	32	29	31	27	25	22
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	20	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14

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	2.0
10°-20°	571.5	5.8
20°-30°	862.0	8.7
30°-40°	1027.1	10.4
40°-50°	1012.6	10.2
50°-60°	773.9	7.8
60°-70°	478.9	4.8
70°-80°	272.0	2.7
80°-90°	82.8	0.8
90°-100°	340.3	3.4
100°-110°	968.4	9.8
110°-120°	927.8	9.4
120°-130°	734.4	7.4
130°-140°	589.4	5.9
140°-150°	461.5	4.7
150°-160°	337.6	3.4
160°-170°	209.1	2.1
170°-180°	71.0	0.7
0°-30°	1633.3	16.5
0°-40°	2660.4	26.8
0°-60°	4447.0	44.8
0°-90°	5280.6	53.2
90°-120°	2236.6	22.5
90°-150°	4021.8	40.5
90°-180°	4640.0	46.8
0°-180°	9920.2	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	4
95°	37	147	659	228	141	42
105°	150	228	987	1743	1657	159
115°	280	338	748	1585	1862	275
125°	395	438	714	1185	1417	353
135°	483	523	706	1001	1132	373
145°	569	599	711	866	944	356
155°	650	666	728	783	815	301
165°	718	721	737	753	764	202
175°	753	748	746	741	736	71
180°	747	747	747	747	747	

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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°	11.4	60.2	139.7	40.7	30.7
95°	36.9	146.6	658.9	228.0	140.6
97.5°	67.9	171.7	1014.7	726.1	497.6
100°	89.5	186.6	1092.0	1106.1	852.0
102.5°	113.3	202.7	1074.9	1415.8	1193.9
105°	150.5	228.3	986.9	1743.2	1657.1
107.5°	188.3	258.0	884.1	1835.5	1912.1
110°	214.4	279.7	825.0	1800.2	1972.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.4	301.3	785.2	1716.7	1962.1
115°	279.7	338.0	748.3	1585.3	1861.6
117.5°	315.2	369.9	726.5	1441.7	1734.4
120°	343.6	389.5	724.2	1359.6	1640.1
122.5°	366.4	412.2	718.5	1287.6	1548.1
125°	394.8	437.8	714.2	1185.3	1417.1
127.5°	425.7	466.0	712.0	1124.1	1315.2
130°	441.6	481.9	708.6	1081.5	1248.2
132.5°	458.7	497.8	708.6	1048.3	1201.6
135°	482.8	523.1	705.7	1001.2	1131.7
137.5°	505.5	544.7	705.4	961.3	1074.1
140°	522.6	562.8	704.3	928.3	1036.6
142.5°	541.9	575.5	707.7	901.9	999.1
145°	569.4	598.6	711.4	866.5	944.3
147.5°	593.0	621.3	717.7	830.8	898.0
150°	613.4	632.9	719.9	819.0	866.2
152.5°	629.3	649.9	722.2	803.0	846.9
155°	650.3	665.6	728.4	783.1	815.1
157.5°	676.5	685.6	729.9	774.1	796.9
160°	690.1	697.1	735.5	767.2	786.7
162.5°	698.1	706.1	736.7	761.4	776.4
165°	718.5	721.3	737.0	752.8	763.9
167.5°	732.4	729.9	743.5	750.7	755.1
170°	737.0	735.6	741.2	742.8	748.3
172.5°	747.2	742.5	744.6	740.5	744.9
175°	752.6	748.4	745.5	741.1	735.5
177.5°	754.9	748.2	744.6	740.1	741.2
180°	746.9	746.9	746.9	746.9	746.9

(END OF REPORT)