

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: P563277

Luminaire Tested: **SQ4-PP3-050U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563277
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-050D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11827.3 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

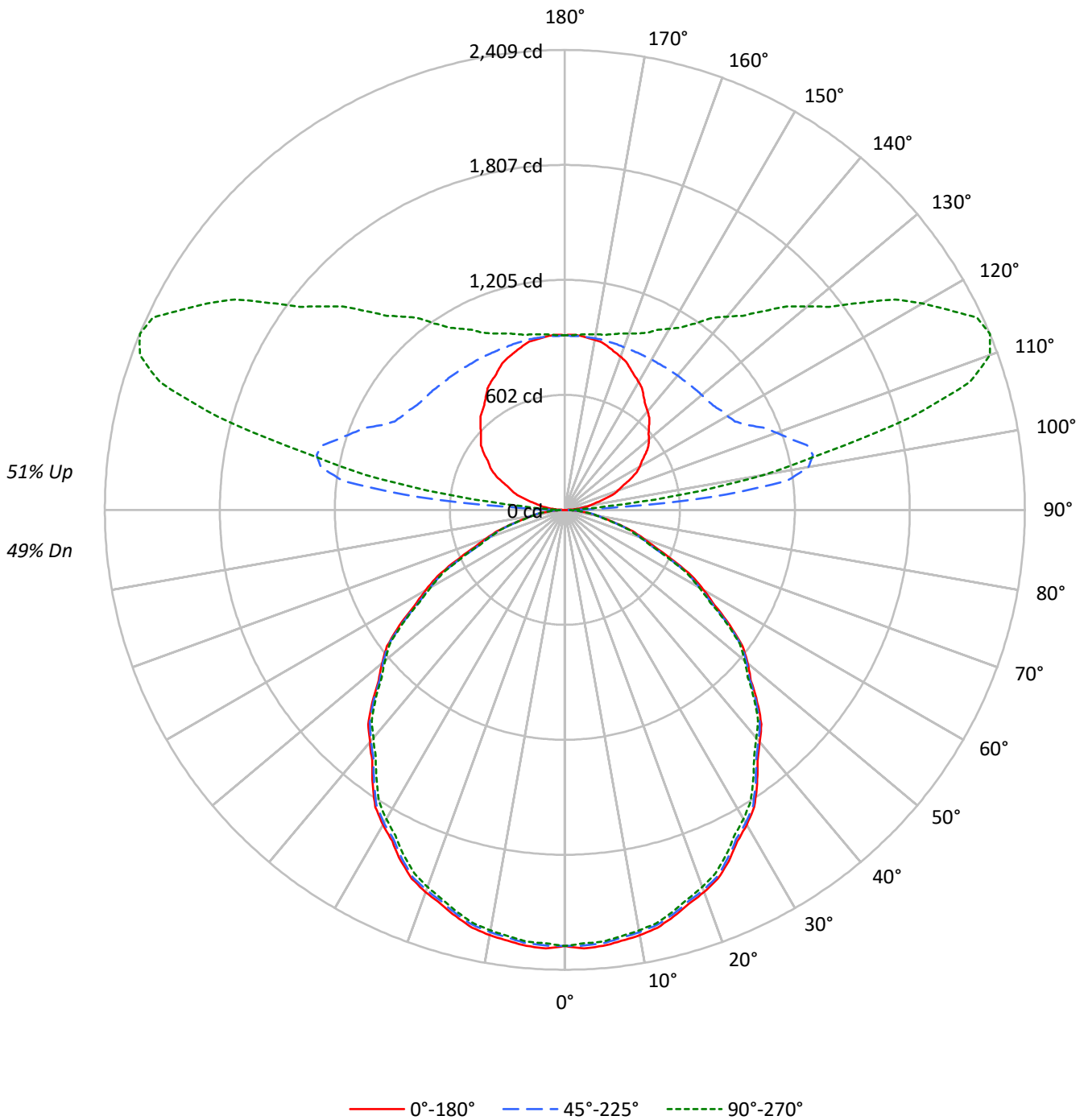
Input Watts (W): 79.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	36				
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5669	5594	5551
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3763	3763
75°	3379	3332	3283
80°	2979	3014	2943
85°	2332	2544	2544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.1	1.8
10°-20°	616.9	5.2
20°-30°	924.1	7.8
30°-40°	1083.9	9.2
40°-50°	1087.3	9.2
50°-60°	927.5	7.8
60°-70°	604.9	5.1
70°-80°	303.5	2.6
80°-90°	87.5	0.7
90°-100°	439.4	3.7
100°-110°	1193.5	10.1
110°-120°	1227.1	10.4
120°-130°	981.1	8.3
130°-140°	770.9	6.5
140°-150°	591.1	5.0
150°-160°	425.1	3.6
160°-170°	260.0	2.2
170°-180°	87.6	0.7
0°-30°	1757.0	14.9
0°-40°	2840.9	24.0
0°-60°	4855.7	41.1
0°-90°	5851.6	49.5
90°-120°	2860.0	24.2
90°-150°	5203.1	44.0
90°-180°	5976.0	50.5
0°-180°	11827.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2293	2271	2279	2271	2271	218
15°	2205	2183	2193	2185	2181	622
25°	2031	2007	2016	1998	1996	934
35°	1754	1737	1742	1722	1720	1096
45°	1426	1416	1416	1402	1402	1098
55°	1057	1053	1043	1037	1035	940
65°	625	613	599	595	597	624
75°	284	284	280	278	276	309
85°	66	72	72	72	72	78
90°	3	12	21	26	26	7
95°	65	240	765	333	224	69
105°	212	330	1312	1998	1880	225
115°	377	457	1051	2090	2381	372
125°	518	590	950	1602	1889	462
135°	624	693	924	1304	1471	482
145°	721	773	912	1108	1192	453
155°	815	844	906	995	1024	376
165°	883	894	909	948	950	249
175°	915	918	912	924	921	87
180°	915	915	915	915	915	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2284.9	2284.9	2284.9	2284.9	2284.9
2.5°	2299.3	2280.5	2284.9	2281.5	2272.1
5°	2292.9	2271.4	2278.9	2270.9	2270.9
7.5°	2277.3	2253.8	2261.2	2253.2	2252.8
10°	2262.9	2239.4	2246.8	2238.8	2236.8
12.5°	2242.0	2218.5	2227.6	2218.0	2217.6
15°	2204.8	2183.2	2192.8	2184.7	2180.7
17.5°	2162.7	2139.2	2150.7	2139.5	2137.9
20°	2130.7	2107.2	2118.7	2102.6	2102.6
22.5°	2092.2	2068.7	2081.8	2061.0	2061.0
25°	2030.6	2007.1	2016.5	1998.5	1996.5
27.5°	1957.3	1934.2	1944.0	1923.6	1923.2
30°	1904.4	1882.9	1894.4	1872.3	1870.4
32.5°	1846.7	1826.8	1835.1	1813.0	1811.1
35°	1754.2	1736.6	1742.2	1722.1	1720.2
37.5°	1656.9	1638.9	1645.3	1628.0	1627.3
40°	1588.0	1576.3	1578.0	1563.9	1560.0
42.5°	1523.9	1510.6	1512.3	1498.3	1497.5
45°	1425.8	1416.0	1415.8	1401.8	1401.8
47.5°	1321.7	1314.2	1312.1	1300.4	1300.0
50°	1249.6	1243.7	1241.6	1231.5	1229.5
52.5°	1174.3	1171.5	1164.7	1156.2	1155.9
55°	1057.3	1053.4	1043.3	1037.3	1035.3
57.5°	930.4	922.5	911.1	902.4	903.9
60°	839.1	831.2	815.0	811.0	811.0
62.5°	750.9	741.5	725.3	719.8	722.9
65°	624.8	613.0	598.8	594.8	596.8
67.5°	510.2	499.7	484.2	484.2	482.6
70°	436.6	430.7	418.5	418.5	418.5
72.5°	370.9	368.1	359.3	359.2	357.7
75°	284.4	284.4	280.4	278.3	276.3
77.5°	213.1	213.9	211.9	209.8	206.3
80°	168.2	172.1	170.2	168.2	166.2
82.5°	126.6	130.5	130.2	126.6	126.2
85°	66.1	72.0	72.1	72.1	72.1
87.5°	18.2	26.2	29.8	31.0	32.5
90°	2.9	11.6	20.6	26.5	26.5
92.5°	26.5	120.3	208.9	89.7	75.9
95°	64.7	240.3	765.1	333.0	223.7
97.5°	107.1	265.4	1173.0	912.6	641.0
100°	135.4	282.1	1297.8	1315.6	1062.4
102.5°	163.6	298.9	1330.8	1627.0	1403.7
105°	211.9	329.9	1312.5	1998.4	1880.5
107.5°	261.9	366.1	1236.6	2190.2	2223.0
110°	297.2	392.2	1180.1	2228.0	2369.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	327.8	418.2	1123.6	2196.7	2409.0
115°	376.7	457.3	1050.6	2090.1	2380.8
117.5°	422.6	499.7	1004.1	1939.1	2266.6
120°	453.2	528.0	982.9	1837.8	2163.0
122.5°	479.1	553.9	968.8	1736.3	2050.0
125°	517.9	589.9	950.5	1601.6	1889.3
127.5°	552.7	624.0	940.5	1499.4	1746.3
130°	573.9	642.9	935.8	1435.3	1656.8
132.5°	595.0	664.1	931.1	1380.5	1576.8
135°	623.9	692.9	924.1	1304.5	1471.4
137.5°	655.1	717.8	920.5	1237.4	1377.8
140°	673.9	734.3	918.2	1194.7	1321.3
142.5°	692.7	748.6	915.8	1161.3	1267.2
145°	721.0	772.8	912.3	1108.4	1191.8
147.5°	752.8	797.1	909.3	1066.8	1132.4
150°	774.0	811.4	909.3	1042.9	1094.7
152.5°	790.4	823.2	907.0	1021.5	1064.1
155°	815.2	843.9	906.4	995.3	1024.1
157.5°	839.3	861.7	906.4	977.5	999.4
160°	853.4	873.6	906.4	965.6	982.9
162.5°	867.5	883.1	908.7	956.1	968.8
165°	882.9	894.4	909.3	947.7	950.5
167.5°	898.7	904.5	912.3	937.6	939.9
170°	903.5	909.2	912.3	932.9	932.9
172.5°	908.2	911.6	912.3	928.2	928.2
175°	915.2	918.1	912.3	924.0	921.1
177.5°	917.6	917.6	910.5	919.8	915.2
180°	915.2	915.2	915.2	915.2	915.2

(END OF REPORT)