

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: P519799

Luminaire Tested: **SQ4-F-025U-050D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519799
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-025U-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

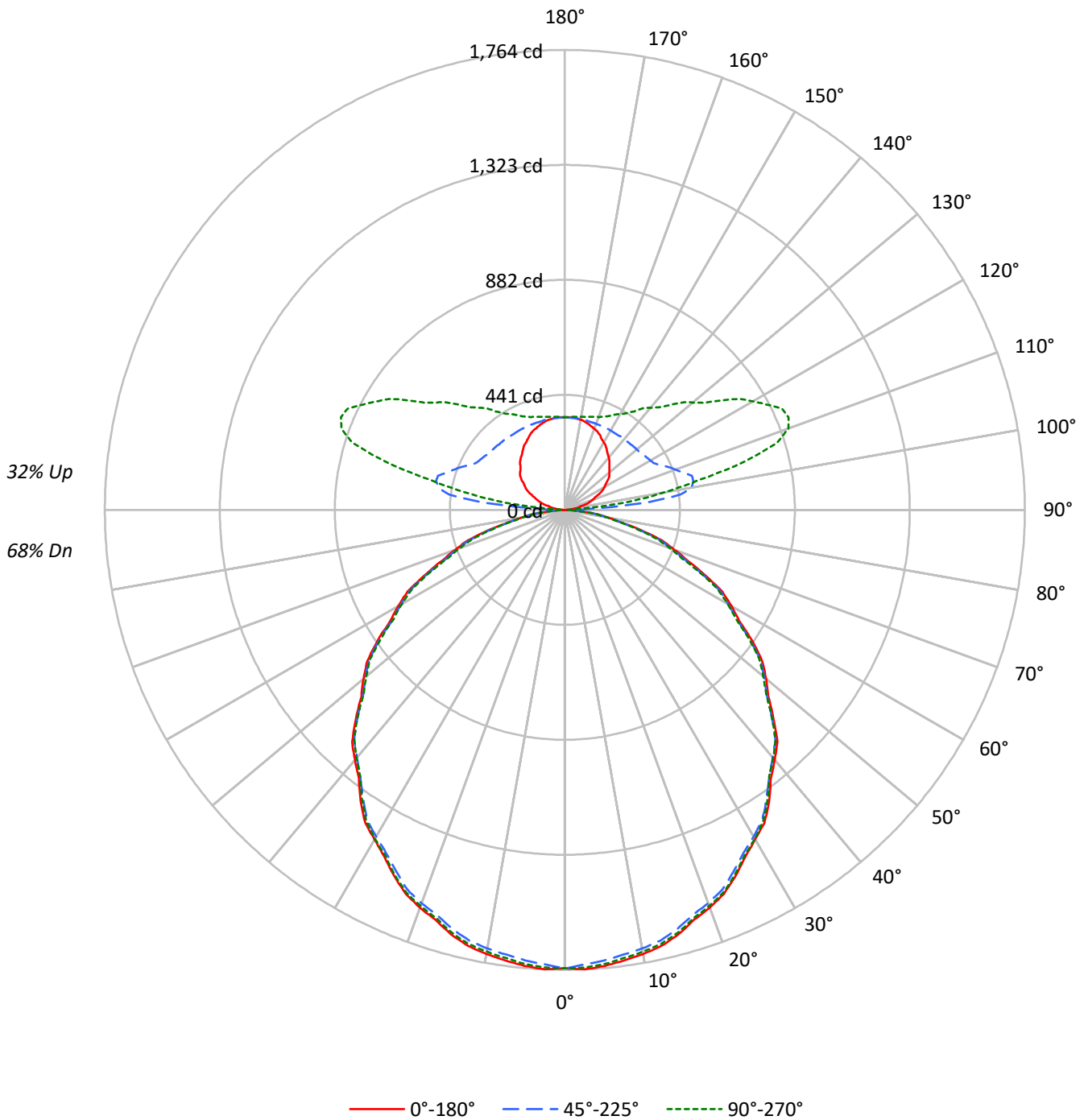
Lumens per Lamp: N/A
Luminaire Lumens: 7107.1 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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				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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	68
1	102	97	93	90	96	92	88	85	82	79	77	72	70	69	64	62	61	57
2	93	85	78	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	50	46	43	40
4	77	66	58	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	32	30
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26
7	60	48	39	34	57	45	38	32	41	35	30	37	32	28	33	29	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5408	5408	5408
5°	5421	5356	5399
10°	5403	5337	5374
15°	5366	5299	5344
20°	5316	5254	5292
25°	5256	5192	5240
30°	5183	5141	5174
35°	5126	5064	5091
40°	5028	4981	4990
45°	4925	4883	4883
50°	4820	4775	4753
55°	4708	4645	4619
60°	4532	4459	4430
65°	4317	4232	4180
70°	4022	3937	3852
75°	3609	3496	3411
80°	2919	2876	2793
85°	1743	1994	2078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	2.3
10°-20°	472.5	6.6
20°-30°	709.6	10.0
30°-40°	847.1	11.9
40°-50°	868.0	12.2
50°-60°	774.1	10.9
60°-70°	576.5	8.1
70°-80°	313.0	4.4
80°-90°	74.4	1.0
90°-100°	173.4	2.4
100°-110°	455.8	6.4
110°-120°	472.7	6.7
120°-130°	379.1	5.3
130°-140°	297.5	4.2
140°-150°	228.3	3.2
150°-160°	164.5	2.3
160°-170°	100.6	1.4
170°-180°	34.0	0.5
0°-30°	1348.0	19.0
0°-40°	2195.1	30.9
0°-60°	3837.3	54.0
0°-90°	4801.2	67.6
90°-120°	1101.9	15.5
90°-150°	2006.8	28.2
90°-180°	2306.0	32.4
0°-180°	7107.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1756	1754	1735	1751	1749	167
15°	1686	1681	1664	1678	1678	475
25°	1549	1544	1530	1540	1544	713
35°	1365	1361	1349	1349	1356	852
45°	1132	1135	1123	1121	1123	874
55°	878	878	866	859	862	782
65°	593	591	582	574	574	587
75°	304	301	294	290	287	321
85°	49	54	56	59	59	69
90°	2	7	18	9	9	3
95°	23	90	299	154	105	25
105°	82	124	504	765	714	87
115°	146	177	404	805	919	144
125°	203	228	367	620	732	180
135°	242	266	356	501	568	187
145°	280	298	351	427	461	176
155°	317	326	351	386	397	146
165°	342	346	351	365	369	97
175°	356	356	354	358	358	34
180°	356	356	356	356	356	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.4	1758.4	1758.4	1758.4	1758.4
2.5°	1764.1	1760.4	1745.2	1758.3	1756.6
5°	1756.1	1753.8	1734.9	1751.3	1749.0
7.5°	1743.3	1738.7	1720.3	1736.2	1734.0
10°	1730.1	1725.6	1709.0	1723.0	1720.8
12.5°	1713.2	1710.4	1692.1	1706.2	1705.7
15°	1685.5	1680.8	1664.3	1678.4	1678.4
17.5°	1648.7	1645.9	1629.9	1643.5	1641.7
20°	1624.2	1619.6	1605.4	1617.1	1617.1
22.5°	1594.2	1591.4	1577.2	1587.1	1588.9
25°	1548.9	1544.3	1530.1	1539.6	1544.2
27.5°	1499.0	1495.4	1483.5	1489.6	1492.9
30°	1459.5	1459.5	1447.7	1450.2	1457.1
32.5°	1423.7	1423.7	1410.1	1412.4	1415.7
35°	1365.3	1360.7	1348.8	1349.0	1355.9
37.5°	1297.6	1295.2	1287.6	1286.2	1288.1
40°	1252.3	1250.0	1240.6	1242.9	1242.9
42.5°	1207.1	1204.9	1195.4	1192.1	1195.8
45°	1132.3	1134.6	1122.8	1120.6	1122.8
47.5°	1058.3	1058.3	1049.0	1042.5	1046.1
50°	1007.5	1007.5	998.1	993.4	993.4
52.5°	954.8	956.6	945.3	938.8	940.6
55°	878.0	878.0	866.3	859.2	861.5
57.5°	793.3	793.3	781.5	774.5	778.7
60°	736.8	736.8	725.0	718.0	720.3
62.5°	680.3	680.3	668.5	661.4	661.9
65°	593.2	590.9	581.5	574.4	574.4
67.5°	509.4	503.4	496.2	486.8	486.8
70°	447.3	444.9	437.8	428.4	428.4
72.5°	390.8	386.6	379.4	371.9	371.9
75°	303.7	301.3	294.2	289.5	287.1
77.5°	217.5	215.7	215.2	208.6	210.4
80°	164.8	164.8	162.4	157.7	157.7
82.5°	117.7	119.5	115.4	114.4	112.5
85°	49.4	54.0	56.5	58.9	58.9
87.5°	9.9	16.4	17.0	17.0	17.0
90°	2.3	6.8	18.3	9.1	9.1
92.5°	9.6	46.2	102.2	45.2	29.2
95°	22.8	89.7	298.7	154.0	104.9
97.5°	39.7	98.5	447.0	355.5	261.8
100°	52.5	106.0	492.6	499.1	387.7
102.5°	63.4	113.4	505.4	621.8	526.4
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.2	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.6	912.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.8	160.7	429.7	846.6	928.6
115°	146.0	177.2	403.7	805.3	919.1
117.5°	164.7	193.2	385.9	748.2	874.3
120°	175.6	202.4	378.5	709.7	832.4
122.5°	186.6	213.3	373.1	671.4	792.2
125°	202.9	227.5	367.1	620.5	732.1
127.5°	216.2	241.2	362.2	579.5	673.7
130°	223.5	250.2	360.4	553.8	640.8
132.5°	230.7	257.5	358.5	531.7	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.8	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.7
145°	280.5	298.3	351.2	427.2	460.6
147.5°	291.4	308.8	351.2	411.1	438.7
150°	298.7	314.4	351.2	401.8	424.2
152.5°	306.1	318.1	351.2	394.5	411.4
155°	317.0	325.9	351.2	385.7	396.8
157.5°	325.2	333.7	351.2	377.9	385.9
160°	330.6	337.3	351.2	374.1	378.5
162.5°	336.2	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	364.9	369.4
167.5°	347.6	349.7	353.5	362.7	364.5
170°	351.2	353.5	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	358.9
175°	355.8	355.8	353.5	358.1	358.1
177.5°	355.8	355.8	354.0	357.6	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)