

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: P563861

Luminaire Tested: **SQ4-PR1-025U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563861  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-050D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6933.9 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

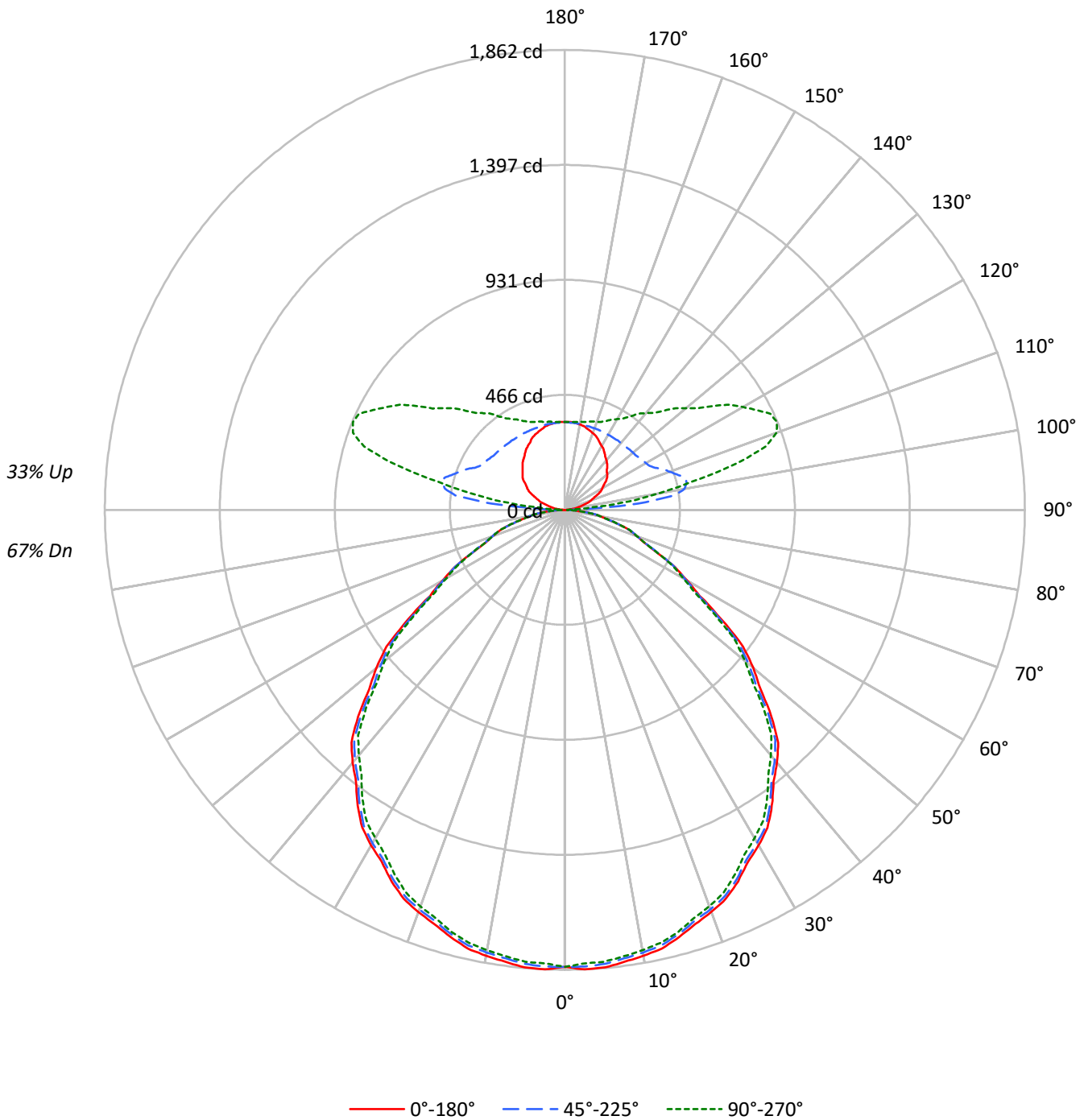
Input Watts (W): 68.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	88	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	63	80	72	65	60	64	59	55	57	53	50	51	47	45	41
4	78	67	59	53	73	64	57	51	57	51	47	51	47	43	45	42	39	36
5	72	60	52	46	68	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	52	44	39	46	40	36	42	37	33	37	33	30	28
7	62	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27	24
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	30	25	32	27	24	29	25	22	20
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5655
15°	5699	5664	5633
20°	5670	5634	5592
25°	5630	5593	5528
30°	5570	5530	5451
35°	5487	5439	5362
40°	5362	5305	5209
45°	5144	5053	4949
50°	4759	4644	4553
55°	4153	4059	3974
60°	3500	3470	3402
65°	3027	3039	3016
70°	2780	2795	2795
75°	2670	2670	2689
80°	2513	2541	2513
85°	2025	2251	2251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.0	2.5
10°-20°	500.7	7.2
20°-30°	755.2	10.9
30°-40°	899.8	13.0
40°-50°	887.1	12.8
50°-60°	678.0	9.8
60°-70°	419.6	6.1
70°-80°	238.3	3.4
80°-90°	74.4	1.1
90°-100°	173.4	2.5
100°-110°	455.8	6.6
110°-120°	472.7	6.8
120°-130°	379.1	5.5
130°-140°	297.5	4.3
140°-150°	228.3	3.3
150°-160°	164.5	2.4
160°-170°	100.6	1.5
170°-180°	34.0	0.5
0°-30°	1430.8	20.6
0°-40°	2330.6	33.6
0°-60°	3895.7	56.2
0°-90°	4628.0	66.7
90°-120°	1101.9	15.9
90°-150°	2006.9	28.9
90°-180°	2306.0	33.3
0°-180°	6933.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1850	1850	1850	1850	1850	
5°	1860	1840	1846	1839	1836	176
15°	1790	1771	1779	1772	1769	505
25°	1659	1639	1648	1630	1629	764
35°	1462	1444	1449	1430	1428	912
45°	1183	1167	1162	1141	1138	906
55°	775	762	757	744	741	694
65°	416	413	418	414	414	421
75°	225	225	225	226	226	237
85°	57	60	64	64	64	67
90°	2	7	18	9	9	4
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	621	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°	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1862.0	1845.8	1850.5	1846.5	1837.8
5°	1860.1	1839.8	1845.7	1839.3	1836.2
7.5°	1845.7	1825.8	1831.7	1825.3	1823.4
10°	1833.0	1814.3	1820.2	1813.8	1810.7
12.5°	1818.9	1799.0	1806.2	1798.5	1795.4
15°	1789.9	1771.2	1778.8	1772.3	1769.2
17.5°	1758.1	1738.1	1745.6	1738.2	1734.2
20°	1732.6	1713.9	1721.4	1710.2	1708.7
22.5°	1704.5	1685.8	1693.4	1678.4	1678.0
25°	1659.2	1639.0	1648.1	1630.5	1629.0
27.5°	1605.4	1586.7	1594.2	1576.3	1574.4
30°	1568.4	1549.7	1557.2	1538.0	1534.9
32.5°	1526.3	1508.9	1515.2	1496.0	1494.1
35°	1461.6	1444.5	1448.8	1429.7	1428.1
37.5°	1388.0	1372.4	1374.9	1353.8	1352.3
40°	1335.7	1320.1	1321.3	1299.0	1297.4
42.5°	1278.3	1262.7	1261.4	1239.1	1237.5
45°	1182.7	1167.1	1161.9	1141.2	1138.0
47.5°	1073.6	1058.1	1048.5	1031.5	1029.3
50°	994.6	979.0	970.7	956.2	951.6
52.5°	909.2	893.6	886.5	873.3	868.7
55°	774.6	762.2	757.1	744.3	741.2
57.5°	646.8	638.4	636.9	624.5	623.2
60°	569.0	564.3	564.2	553.1	553.1
62.5°	502.7	499.3	501.8	494.4	493.2
65°	416.0	412.9	417.6	414.4	414.4
67.5°	347.5	347.5	350.3	349.1	349.1
70°	309.2	309.2	310.8	310.8	310.8
72.5°	274.8	273.5	277.7	277.6	276.4
75°	224.7	224.7	224.7	226.3	226.3
77.5°	175.0	175.3	176.6	176.3	175.0
80°	141.9	143.4	143.5	141.9	141.9
82.5°	108.7	110.3	110.3	110.0	108.7
85°	57.4	60.5	63.8	63.8	63.8
87.5°	17.0	22.9	29.2	27.3	26.1
90°	2.3	6.7	18.2	9.1	9.1
92.5°	9.6	46.1	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	499.2	387.7
102.5°	63.4	113.3	505.4	621.8	526.3
105°	82.1	124.5	504.0	765.1	713.8
107.5°	101.3	140.5	475.3	839.5	852.0
110°	114.0	149.7	451.5	858.7	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	748.1	874.4
120°	175.6	202.4	378.6	709.7	832.4
122.5°	186.5	213.3	373.1	671.4	792.3
125°	203.0	227.5	367.2	620.6	732.0
127.5°	216.2	241.2	362.1	579.6	673.7
130°	223.5	250.2	360.3	553.9	640.8
132.5°	230.8	257.5	358.5	531.8	609.8
135°	241.7	266.3	355.8	501.0	567.9
137.5°	253.1	277.2	355.3	477.9	532.7
140°	262.3	284.6	353.5	459.6	510.8
142.5°	269.6	290.1	353.5	446.6	490.8
145°	280.5	298.3	351.2	427.2	460.7
147.5°	291.5	308.8	351.2	411.1	438.8
150°	298.7	314.4	351.2	401.9	424.2
152.5°	306.0	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	377.8	385.9
160°	330.7	337.4	351.2	374.1	378.6
162.5°	336.1	341.1	351.2	370.5	374.9
165°	342.1	346.5	351.2	365.0	369.4
167.5°	347.6	349.8	353.5	362.6	364.4
170°	351.2	353.4	353.5	362.6	362.6
172.5°	353.0	353.5	353.5	360.7	359.0
175°	355.8	355.8	353.5	358.0	358.0
177.5°	355.8	355.8	353.9	357.5	355.8
180°	355.8	355.8	355.8	355.8	355.8

(END OF REPORT)