

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: P561908

Luminaire Tested: **SQ4-PR1-075U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561908  
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-PR1-075U-100D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

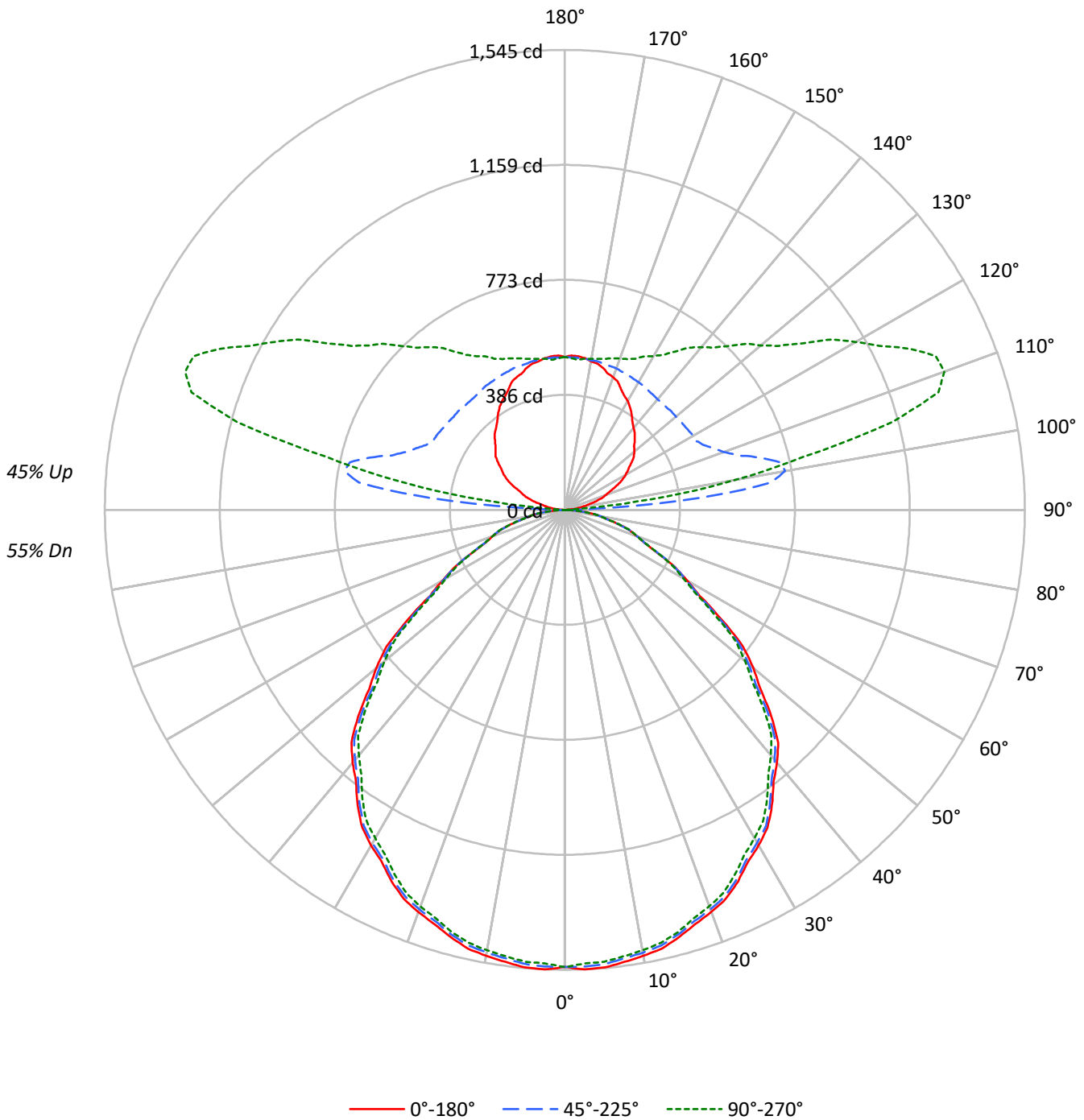
Lumens per Lamp: N/A  
Luminaire Lumens: 7029.5 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 66.1  
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	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	59	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

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

	0°	45°	90°
0°	14168	14168	14168
5°	14295	14185	14111
10°	14250	14150	14076
15°	14187	14098	14023
20°	14116	14024	13920
25°	14016	13922	13760
30°	13866	13766	13569
35°	13660	13542	13348
40°	13348	13205	12967
45°	12805	12581	12321
50°	11846	11562	11333
55°	10340	10105	9893
60°	8713	8639	8468
65°	7536	7564	7508
70°	6922	6957	6957
75°	6648	6648	6695
80°	6254	6323	6254
85°	5039	5600	5600



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.2	2.1
10°-20°	415.5	5.9
20°-30°	626.6	8.9
30°-40°	746.6	10.6
40°-50°	736.1	10.5
50°-60°	562.6	8.0
60°-70°	348.2	5.0
70°-80°	197.7	2.8
80°-90°	60.1	0.9
90°-100°	234.1	3.3
100°-110°	666.0	9.5
110°-120°	638.1	9.1
120°-130°	505.0	7.2
130°-140°	405.4	5.8
140°-150°	317.4	4.5
150°-160°	232.2	3.3
160°-170°	143.8	2.0
170°-180°	48.8	0.7
0°-30°	1187.3	16.9
0°-40°	1934.0	27.5
0°-60°	3232.7	46.0
0°-90°	3838.7	54.6
90°-120°	1538.2	21.9
90°-150°	2766.0	39.3
90°-180°	3191.0	45.4
0°-180°	7029.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1544	1527	1532	1526	1524	146
15°	1485	1470	1476	1471	1468	419
25°	1377	1360	1368	1353	1352	634
35°	1213	1199	1202	1186	1185	757
45°	981	968	964	947	944	752
55°	643	632	628	618	615	576
65°	345	343	346	344	344	350
75°	186	186	186	188	188	197
85°	48	50	53	53	53	55
90°	0	0	0	0	0	3
95°	25	101	453	157	97	29
105°	104	157	679	1199	1140	110
115°	192	232	515	1090	1280	189
125°	272	301	491	815	975	243
135°	332	360	485	689	778	256
145°	392	412	489	596	649	245
155°	447	458	501	539	560	207
165°	494	496	507	518	525	139
175°	518	515	513	510	506	49
180°	514	514	514	514	514	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1535.6	1535.6	1535.6	1535.6	1535.6
2.5°	1545.1	1531.6	1535.6	1532.2	1525.0
5°	1543.5	1526.7	1531.6	1526.2	1523.6
7.5°	1531.6	1515.0	1519.9	1514.6	1513.1
10°	1521.0	1505.5	1510.4	1505.1	1502.5
12.5°	1509.4	1492.8	1498.8	1492.4	1489.8
15°	1485.3	1469.8	1476.0	1470.7	1468.1
17.5°	1458.8	1442.3	1448.5	1442.4	1439.0
20°	1437.7	1422.2	1428.4	1419.1	1417.8
22.5°	1414.4	1398.9	1405.1	1392.7	1392.4
25°	1376.8	1360.0	1367.6	1353.0	1351.7
27.5°	1332.1	1316.6	1322.9	1308.0	1306.5
30°	1301.5	1285.9	1292.2	1276.3	1273.7
32.5°	1266.5	1252.0	1257.3	1241.4	1239.8
35°	1212.8	1198.6	1202.3	1186.4	1185.1
37.5°	1151.7	1138.8	1140.9	1123.4	1122.1
40°	1108.3	1095.4	1096.4	1077.9	1076.6
42.5°	1060.7	1047.8	1046.7	1028.2	1026.9
45°	981.4	968.4	964.2	946.9	944.3
47.5°	890.9	878.0	870.0	856.0	854.1
50°	825.3	812.4	805.5	793.5	789.6
52.5°	754.4	741.5	735.6	724.7	720.8
55°	642.8	632.4	628.2	617.6	615.0
57.5°	536.7	529.7	528.5	518.2	517.1
60°	472.2	468.3	468.2	458.9	458.9
62.5°	417.2	414.3	416.4	410.3	409.2
65°	345.2	342.6	346.5	343.9	343.9
67.5°	288.3	288.3	290.7	289.7	289.7
70°	256.6	256.6	257.9	257.9	257.9
72.5°	228.0	227.0	230.4	230.4	229.3
75°	186.5	186.5	186.5	187.8	187.8
77.5°	145.2	145.5	146.5	146.3	145.2
80°	117.7	119.0	119.0	117.7	117.7
82.5°	90.2	91.5	91.5	91.2	90.2
85°	47.6	50.2	52.9	52.9	52.9
87.5°	13.8	17.9	21.2	21.1	20.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	41.4	96.1	28.0	21.1
95°	25.4	100.8	453.1	156.8	96.7
97.5°	46.7	118.1	697.9	499.4	342.2
100°	61.5	128.4	751.0	760.7	585.9
102.5°	77.9	139.4	739.3	973.7	821.1
105°	103.5	157.0	678.7	1198.9	1139.7
107.5°	129.5	177.4	608.0	1262.3	1315.0
110°	147.5	192.3	567.4	1238.0	1356.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	164.6	207.2	540.0	1180.6	1349.4
115°	192.4	232.5	514.7	1090.3	1280.3
117.5°	216.8	254.4	499.6	991.5	1192.8
120°	236.3	267.8	498.0	935.1	1127.9
122.5°	252.0	283.5	494.1	885.5	1064.7
125°	271.5	301.1	491.2	815.2	974.6
127.5°	292.8	320.5	489.7	773.1	904.5
130°	303.7	331.4	487.3	743.8	858.4
132.5°	315.4	342.4	487.3	721.0	826.4
135°	332.0	359.7	485.4	688.6	778.3
137.5°	347.7	374.6	485.2	661.1	738.7
140°	359.4	387.1	484.4	638.4	712.9
142.5°	372.7	395.8	486.7	620.3	687.1
145°	391.6	411.7	489.3	595.9	649.4
147.5°	407.8	427.3	493.6	571.4	617.6
150°	421.9	435.2	495.1	563.2	595.7
152.5°	432.8	446.9	496.7	552.3	582.4
155°	447.3	457.8	501.0	538.6	560.5
157.5°	465.2	471.5	502.0	532.4	548.0
160°	474.6	479.4	505.9	527.6	541.0
162.5°	480.1	485.6	506.6	523.7	534.0
165°	494.1	496.1	506.8	517.8	525.4
167.5°	503.7	502.0	511.3	516.3	519.3
170°	506.8	505.9	509.8	510.8	514.7
172.5°	513.9	510.6	512.1	509.3	512.3
175°	517.6	514.7	512.7	509.7	505.9
177.5°	519.1	514.6	512.1	509.0	509.8
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)