

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: P561557

Luminaire Tested: **SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561557  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 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**

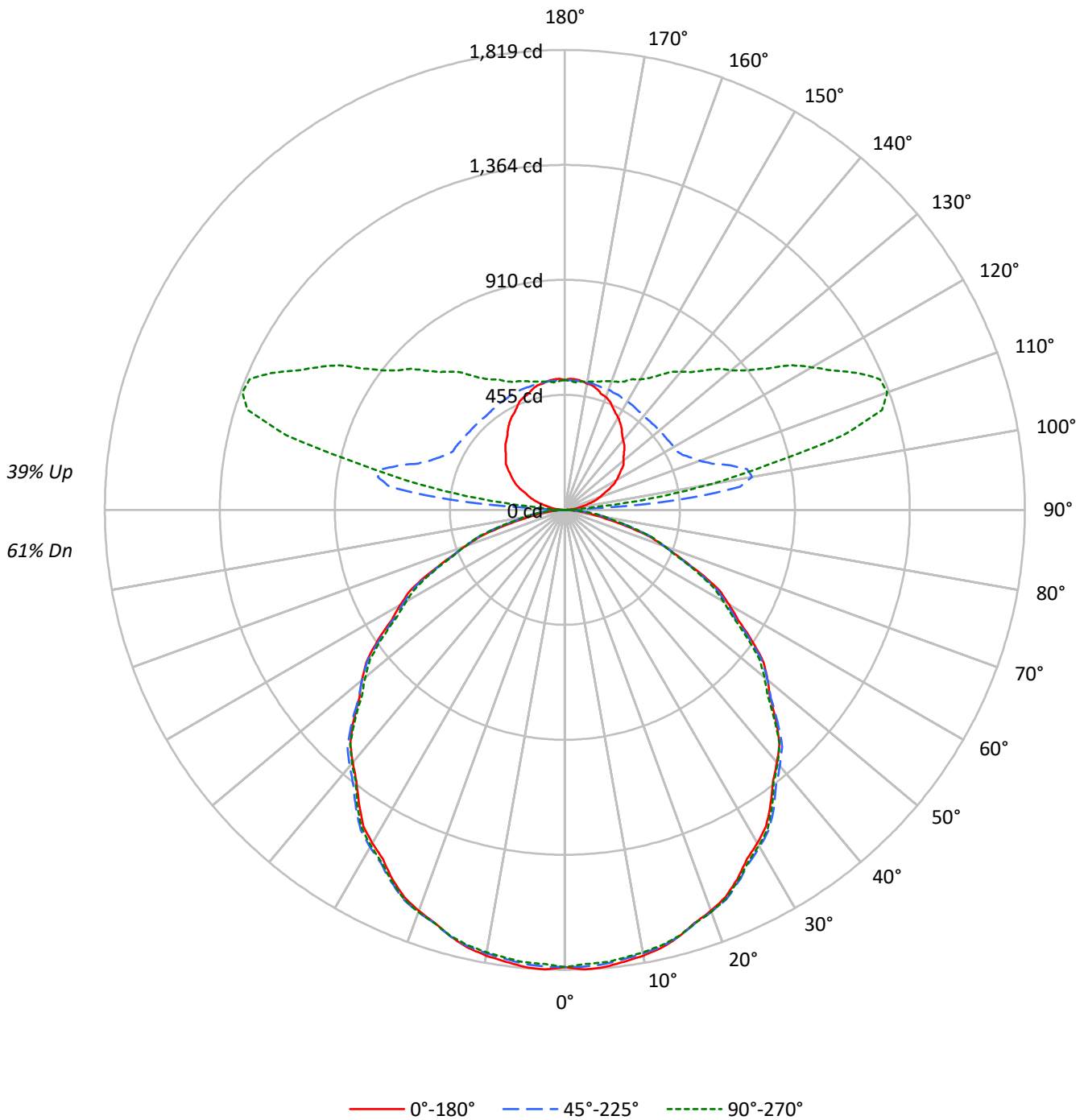
Lumens per Lamp: N/A  
Luminaire Lumens: 8126.5 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 79.4  
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

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

	0°	45°	90°
0°	16686	16686	16686
5°	16811	16703	16641
10°	16771	16692	16645
15°	16682	16682	16667
20°	16572	16621	16621
25°	16416	16535	16484
30°	16216	16413	16341
35°	15974	16220	16106
40°	15711	15933	15772
45°	15425	15535	15295
50°	15022	15022	14781
55°	14544	14356	14141
60°	13843	13564	13348
65°	12795	12540	12428
70°	11203	11292	11249
75°	9015	9967	10028
80°	6408	8453	8544
85°	3896	7093	7093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.2	2.1
10°-20°	491.2	6.0
20°-30°	743.8	9.2
30°-40°	891.7	11.0
40°-50°	909.2	11.2
50°-60°	793.7	9.8
60°-70°	568.2	7.0
70°-80°	292.7	3.6
80°-90°	74.0	0.9
90°-100°	234.1	2.9
100°-110°	666.0	8.2
110°-120°	638.1	7.9
120°-130°	505.0	6.2
130°-140°	405.4	5.0
140°-150°	317.4	3.9
150°-160°	232.2	2.9
160°-170°	143.8	1.8
170°-180°	48.8	0.6
0°-30°	1406.1	17.3
0°-40°	2297.8	28.3
0°-60°	4000.8	49.2
0°-90°	4935.7	60.7
90°-120°	1538.2	18.9
90°-150°	2766.0	34.0
90°-180°	3191.0	39.3
0°-180°	8126.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1815	1797	1804	1798	1797	172
15°	1746	1732	1746	1746	1745	492
25°	1613	1601	1624	1619	1619	742
35°	1418	1415	1440	1430	1430	887
45°	1182	1179	1191	1175	1172	910
55°	904	893	892	879	879	806
65°	586	573	574	569	569	580
75°	253	264	280	281	281	273
85°	37	56	67	69	67	50
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	

TEST NUMBER: P561557

CATALOG NUMBER: SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1819.2	1803.5	1808.5	1804.3	1797.8
5°	1815.2	1797.2	1803.5	1798.4	1796.8
7.5°	1802.1	1784.1	1792.4	1789.0	1787.4
10°	1790.1	1772.1	1781.7	1778.3	1776.7
12.5°	1774.0	1757.3	1768.3	1764.9	1764.6
15°	1746.5	1731.8	1746.5	1746.5	1744.9
17.5°	1712.0	1698.6	1714.4	1715.4	1714.4
20°	1687.9	1673.2	1692.9	1691.3	1692.9
22.5°	1658.5	1646.3	1667.5	1663.2	1664.8
25°	1612.6	1601.1	1624.3	1619.3	1619.3
27.5°	1558.3	1550.1	1575.4	1570.0	1570.0
30°	1522.1	1514.0	1540.6	1533.9	1533.9
32.5°	1482.0	1476.4	1501.7	1493.7	1493.7
35°	1418.3	1415.0	1440.1	1430.0	1430.0
37.5°	1352.7	1349.7	1372.4	1360.3	1356.4
40°	1304.5	1302.8	1322.9	1309.5	1309.5
42.5°	1256.2	1254.6	1272.0	1255.9	1255.9
45°	1182.2	1178.9	1190.6	1175.4	1172.2
47.5°	1101.5	1098.2	1105.5	1089.1	1087.4
50°	1046.6	1043.3	1046.6	1031.5	1029.8
52.5°	990.3	984.4	985.0	969.9	969.6
55°	904.2	892.8	892.5	879.1	879.1
57.5°	813.1	798.1	799.4	788.0	786.4
60°	750.2	733.8	735.1	725.0	723.4
62.5°	688.6	669.6	673.5	662.1	661.8
65°	586.1	573.0	574.4	569.3	569.3
67.5°	487.6	475.5	484.3	480.2	479.9
70°	415.3	407.1	418.6	418.6	417.0
72.5°	348.3	348.0	362.4	362.4	363.4
75°	252.9	264.3	279.6	281.3	281.3
77.5°	168.8	189.1	206.0	206.6	206.3
80°	120.6	143.5	159.1	162.4	160.8
82.5°	81.7	105.9	118.9	122.2	120.6
85°	36.8	56.5	67.0	68.6	67.0
87.5°	10.7	22.5	26.8	26.7	24.1
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

TEST NUMBER: P561557

CATALOG NUMBER: SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (3000K)

**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)