

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: P562663

Luminaire Tested: **SQ4-PC3-050U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562663
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

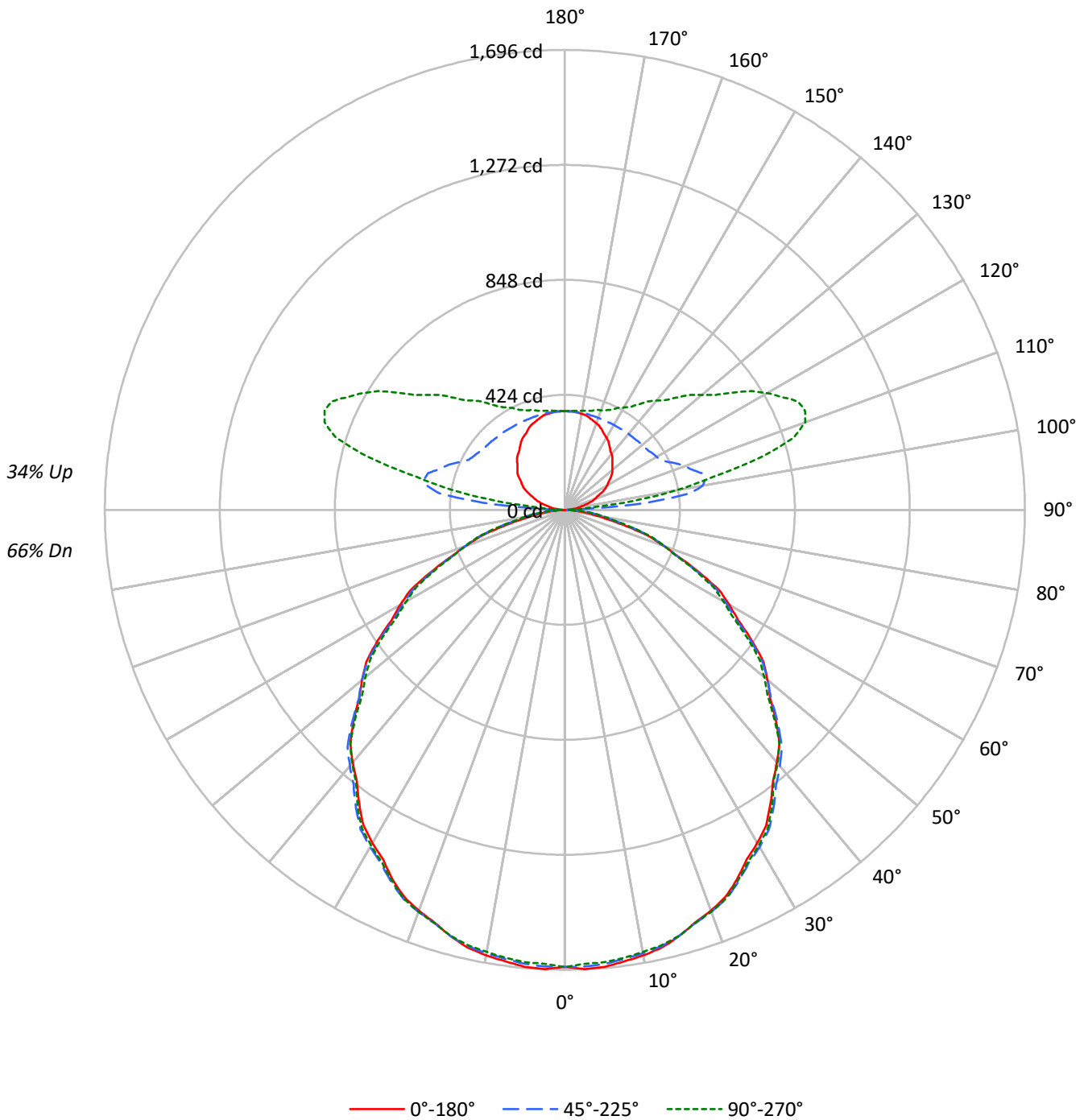
Lumens per Lamp: N/A
Luminaire Lumens: 6979.2 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10368	10368	10368
5°	10446	10378	10339
10°	10420	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10274	10242
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9800
45°	9585	9653	9503
50°	9334	9334	9184
55°	9038	8921	8787
60°	8601	8428	8294
65°	7949	7791	7722
70°	6962	7017	6988
75°	5601	6193	6231
80°	3981	5253	5306
85°	2421	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	2.3
10°-20°	457.8	6.6
20°-30°	693.2	9.9
30°-40°	831.1	11.9
40°-50°	847.4	12.1
50°-60°	739.8	10.6
60°-70°	529.6	7.6
70°-80°	272.8	3.9
80°-90°	70.4	1.0
90°-100°	174.8	2.5
100°-110°	474.9	6.8
110°-120°	488.2	7.0
120°-130°	390.4	5.6
130°-140°	306.7	4.4
140°-150°	235.2	3.4
150°-160°	169.1	2.4
160°-170°	103.4	1.5
170°-180°	34.8	0.5
0°-30°	1310.5	18.8
0°-40°	2141.7	30.7
0°-60°	3728.9	53.4
0°-90°	4601.6	65.9
90°-120°	1137.9	16.3
90°-150°	2070.2	29.7
90°-180°	2378.0	34.1
0°-180°	6979.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1692	1675	1681	1676	1675	161
15°	1628	1614	1628	1628	1626	459
25°	1503	1492	1514	1509	1509	692
35°	1322	1319	1342	1333	1333	827
45°	1102	1099	1110	1096	1092	848
55°	843	832	832	819	819	751
65°	546	534	535	531	531	540
75°	236	246	261	262	262	255
85°	34	53	62	64	62	47
90°	1	5	8	10	10	3
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

TEST NUMBER: P562663

CATALOG NUMBER: SQ4-PC3-050U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.6	1685.6	1685.6	1685.6	1685.6
2.5°	1695.6	1680.9	1685.6	1681.7	1675.6
5°	1691.8	1675.0	1680.9	1676.2	1674.6
7.5°	1679.6	1662.8	1670.6	1667.4	1665.9
10°	1668.4	1651.6	1660.6	1657.4	1655.9
12.5°	1653.4	1637.8	1648.1	1645.0	1644.7
15°	1627.8	1614.1	1627.8	1627.8	1626.3
17.5°	1595.7	1583.2	1597.9	1598.8	1597.9
20°	1573.2	1559.5	1577.9	1576.3	1577.9
22.5°	1545.7	1534.4	1554.2	1550.1	1551.7
25°	1503.0	1492.3	1513.9	1509.2	1509.2
27.5°	1452.4	1444.8	1468.3	1463.3	1463.3
30°	1418.7	1411.1	1435.8	1429.6	1429.6
32.5°	1381.2	1376.0	1399.6	1392.1	1392.1
35°	1321.9	1318.9	1342.2	1332.8	1332.8
37.5°	1260.7	1258.0	1279.2	1267.8	1264.2
40°	1215.8	1214.3	1233.0	1220.5	1220.5
42.5°	1170.8	1169.3	1185.5	1170.5	1170.5
45°	1101.9	1098.8	1109.7	1095.5	1092.5
47.5°	1026.6	1023.6	1030.4	1015.0	1013.5
50°	975.4	972.4	975.4	961.4	959.8
52.5°	923.0	917.5	918.0	904.0	903.6
55°	842.8	832.1	831.9	819.4	819.4
57.5°	757.9	743.8	745.1	734.4	732.9
60°	699.2	683.9	685.1	675.8	674.2
62.5°	641.8	624.1	627.7	617.1	616.8
65°	546.2	534.0	535.3	530.6	530.6
67.5°	454.5	443.2	451.4	447.6	447.3
70°	387.1	379.4	390.2	390.1	388.6
72.5°	324.6	324.3	337.7	337.8	338.7
75°	235.7	246.3	260.6	262.2	262.2
77.5°	157.3	176.2	192.0	192.6	192.3
80°	112.4	133.7	148.3	151.4	149.8
82.5°	76.2	98.7	110.8	113.9	112.4
85°	34.3	52.6	62.4	64.0	62.4
87.5°	10.2	21.9	26.6	27.0	24.6
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

TEST NUMBER: P562663

CATALOG NUMBER: SQ4-PC3-050U-100D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)