

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: P562567

Luminaire Tested: **SQ4-PC3-025U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562567
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

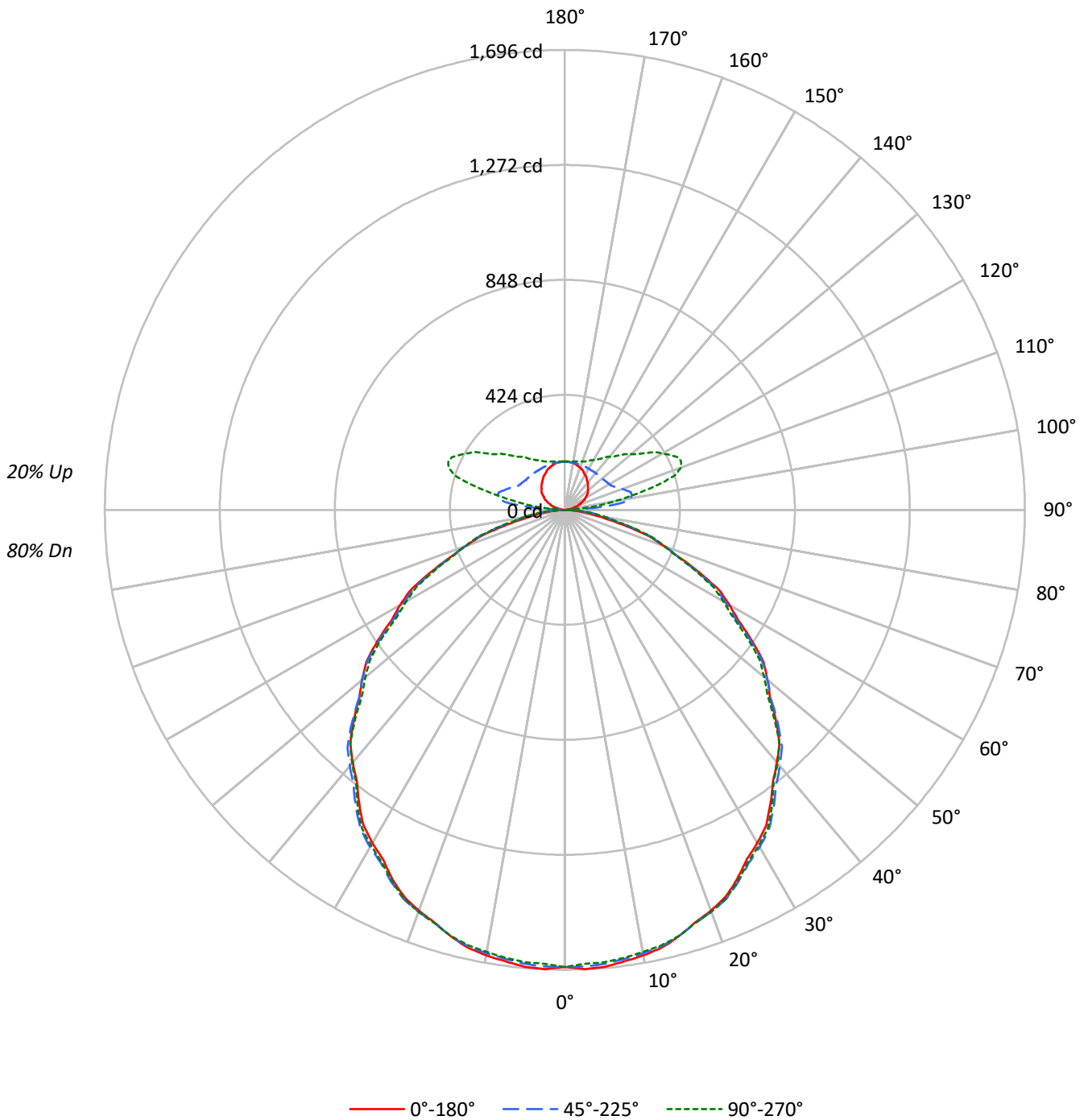
Lumens per Lamp: N/A
Luminaire Lumens: 5754.1 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.5
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

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	2.8
10°-20°	457.8	8.0
20°-30°	693.2	12.0
30°-40°	831.1	14.4
40°-50°	847.4	14.7
50°-60°	739.8	12.9
60°-70°	529.6	9.2
70°-80°	272.8	4.7
80°-90°	69.9	1.2
90°-100°	86.7	1.5
100°-110°	227.9	4.0
110°-120°	236.3	4.1
120°-130°	189.6	3.3
130°-140°	148.7	2.6
140°-150°	114.2	2.0
150°-160°	82.2	1.4
160°-170°	50.3	0.9
170°-180°	17.0	0.3
0°-30°	1310.5	22.8
0°-40°	2141.7	37.2
0°-60°	3728.9	64.8
0°-90°	4601.2	80.0
90°-120°	551.0	9.6
90°-150°	1003.4	17.4
90°-180°	1153.0	20.0
0°-180°	5754.1	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	3	9	5	5	2
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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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	21.6	26.8	25.8	23.4
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

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