

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: P562759

Luminaire Tested: **SQ4-PC3-075U-100D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562759
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

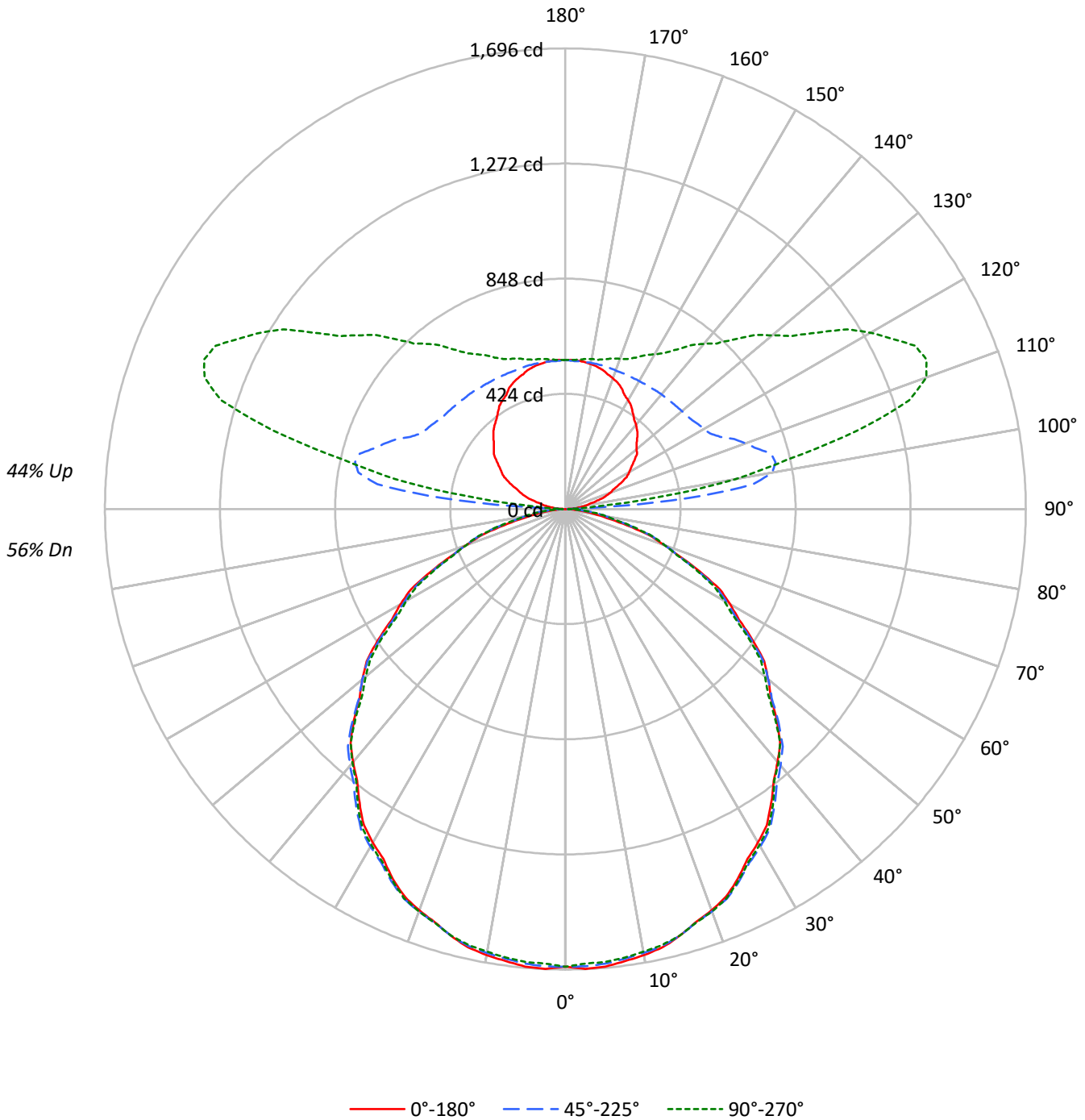
Lumens per Lamp: N/A
Luminaire Lumens: 8175.1 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	50	30	10	0	
RCR																						
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	55	54	52	48				
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40				
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34				
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29				
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25				
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22				
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16				
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

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	2.0
10°-20°	457.8	5.6
20°-30°	693.2	8.5
30°-40°	831.1	10.2
40°-50°	847.4	10.4
50°-60°	739.8	9.0
60°-70°	529.6	6.5
70°-80°	272.8	3.3
80°-90°	70.4	0.9
90°-100°	258.7	3.2
100°-110°	711.8	8.7
110°-120°	734.7	9.0
120°-130°	588.6	7.2
130°-140°	462.3	5.7
140°-150°	354.3	4.3
150°-160°	254.7	3.1
160°-170°	155.8	1.9
170°-180°	52.5	0.6
0°-30°	1310.5	16.0
0°-40°	2141.7	26.2
0°-60°	3728.9	45.6
0°-90°	4601.6	56.3
90°-120°	1705.2	20.9
90°-150°	3110.5	38.0
90°-180°	3573.0	43.7
0°-180°	8175.1	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	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

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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	21.9	26.6	27.0	24.6
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)