

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: P562736

Luminaire Tested: **SQ4-PC3-075U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562736
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-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

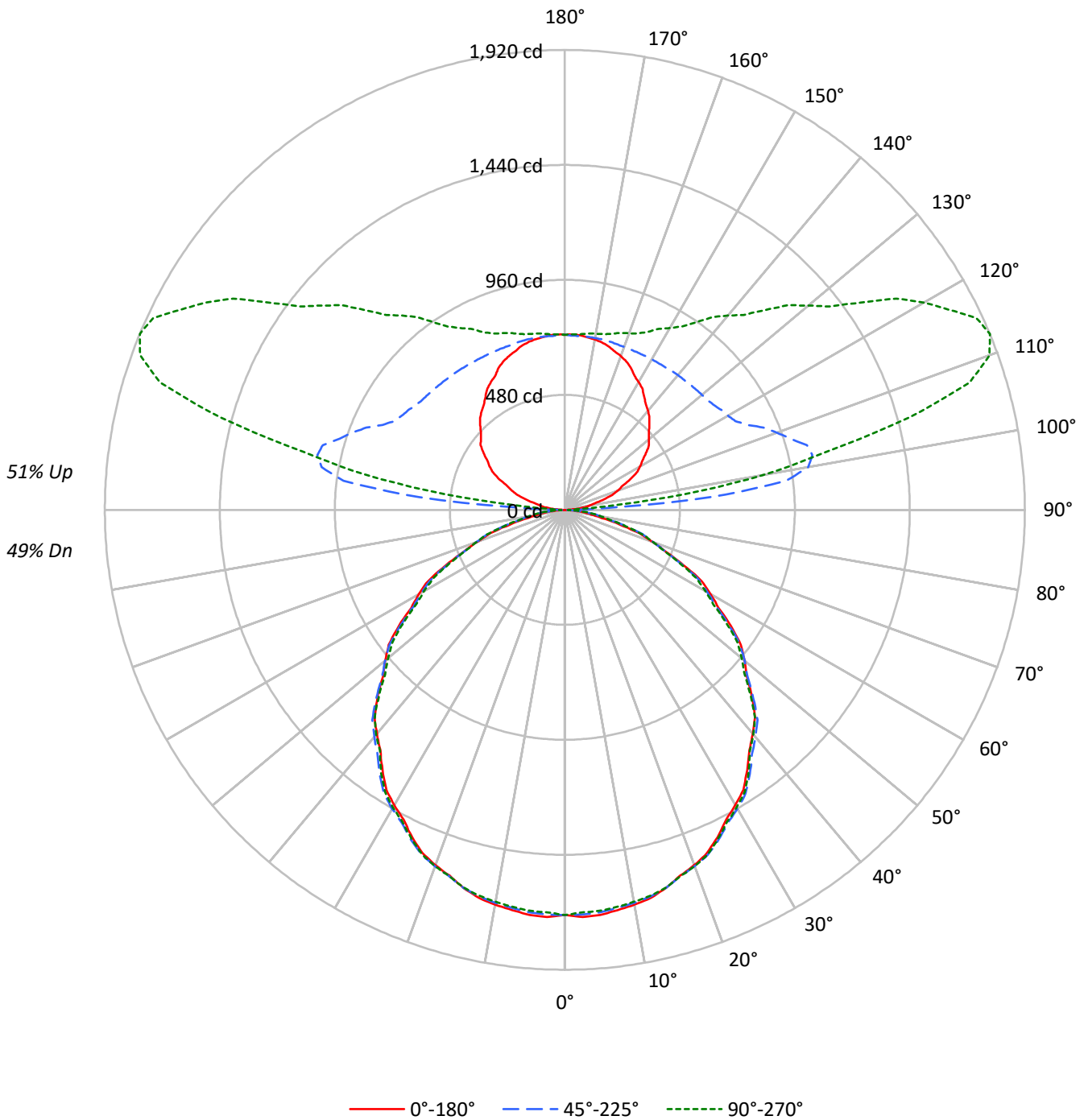
Lumens per Lamp: N/A
Luminaire Lumens: 9382.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47				42	
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40				35	
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34				29	
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29				25	
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20				17	
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16				14	
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14				12	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7842	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7733	7709
30°	7583	7675	7642
35°	7470	7585	7532
40°	7347	7451	7375
45°	7213	7264	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6343	6242
65°	5984	5864	5813
70°	5239	5280	5260
75°	4215	4661	4689
80°	2997	3953	3993
85°	1826	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.7
10°-20°	459.4	4.9
20°-30°	695.7	7.4
30°-40°	834.0	8.9
40°-50°	850.4	9.1
50°-60°	742.3	7.9
60°-70°	531.4	5.7
70°-80°	273.7	2.9
80°-90°	71.1	0.8
90°-100°	344.9	3.7
100°-110°	949.1	10.1
110°-120°	979.6	10.4
120°-130°	784.8	8.4
130°-140°	616.4	6.6
140°-150°	472.4	5.0
150°-160°	339.7	3.6
160°-170°	207.7	2.2
170°-180°	70.0	0.7
0°-30°	1315.1	14.0
0°-40°	2149.1	22.9
0°-60°	3741.9	39.9
0°-90°	4618.1	49.2
90°-120°	2273.6	24.2
90°-150°	4147.3	44.2
90°-180°	4765.0	50.8
0°-180°	9382.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1698	1681	1687	1682	1680	161
15°	1634	1620	1634	1634	1632	461
25°	1508	1498	1519	1514	1514	694
35°	1326	1324	1347	1338	1338	830
45°	1106	1103	1114	1099	1096	851
55°	846	835	835	822	822	754
65°	548	536	537	532	532	542
75°	236	247	262	263	263	256
85°	34	53	63	64	63	47
90°	2	6	11	14	14	5
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.4	1691.4	1691.4	1691.4	1691.4
2.5°	1701.5	1686.8	1691.4	1687.5	1681.4
5°	1697.7	1680.9	1686.7	1682.0	1680.5
7.5°	1685.5	1668.6	1676.4	1673.2	1671.7
10°	1674.2	1657.4	1666.4	1663.2	1661.7
12.5°	1659.2	1643.6	1653.8	1650.7	1650.4
15°	1633.5	1619.7	1633.5	1633.5	1631.9
17.5°	1601.2	1588.7	1603.4	1604.3	1603.4
20°	1578.7	1564.9	1583.4	1581.8	1583.4
22.5°	1551.1	1539.8	1559.6	1555.5	1557.1
25°	1508.2	1497.5	1519.2	1514.5	1514.5
27.5°	1457.5	1449.8	1473.4	1468.4	1468.4
30°	1423.6	1416.0	1440.9	1434.6	1434.6
32.5°	1386.0	1380.8	1404.5	1397.0	1397.0
35°	1326.5	1323.5	1346.9	1337.5	1337.5
37.5°	1265.1	1262.4	1283.6	1272.3	1268.6
40°	1220.0	1218.5	1237.3	1224.7	1224.7
42.5°	1174.9	1173.4	1189.6	1174.6	1174.6
45°	1105.7	1102.6	1113.5	1099.4	1096.3
47.5°	1030.2	1027.1	1034.0	1018.6	1017.1
50°	978.8	975.8	978.8	964.7	963.2
52.5°	926.2	920.7	921.2	907.1	906.8
55°	845.7	835.0	834.8	822.2	822.2
57.5°	760.5	746.4	747.7	737.0	735.5
60°	701.6	686.3	687.5	678.1	676.6
62.5°	644.0	626.2	629.9	619.2	618.9
65°	548.2	535.9	537.2	532.5	532.5
67.5°	456.1	444.7	452.9	449.2	448.9
70°	388.4	380.7	391.5	391.5	390.0
72.5°	325.8	325.5	338.9	338.9	339.9
75°	236.5	247.2	261.5	263.1	263.1
77.5°	157.9	176.9	192.6	193.3	192.9
80°	112.8	134.2	148.8	151.9	150.3
82.5°	76.4	99.1	111.2	114.3	112.8
85°	34.5	52.8	62.6	64.2	62.6
87.5°	10.3	22.3	27.2	27.8	25.4
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)