

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: P562640

Luminaire Tested: **SQ4-PC3-050U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562640
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-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

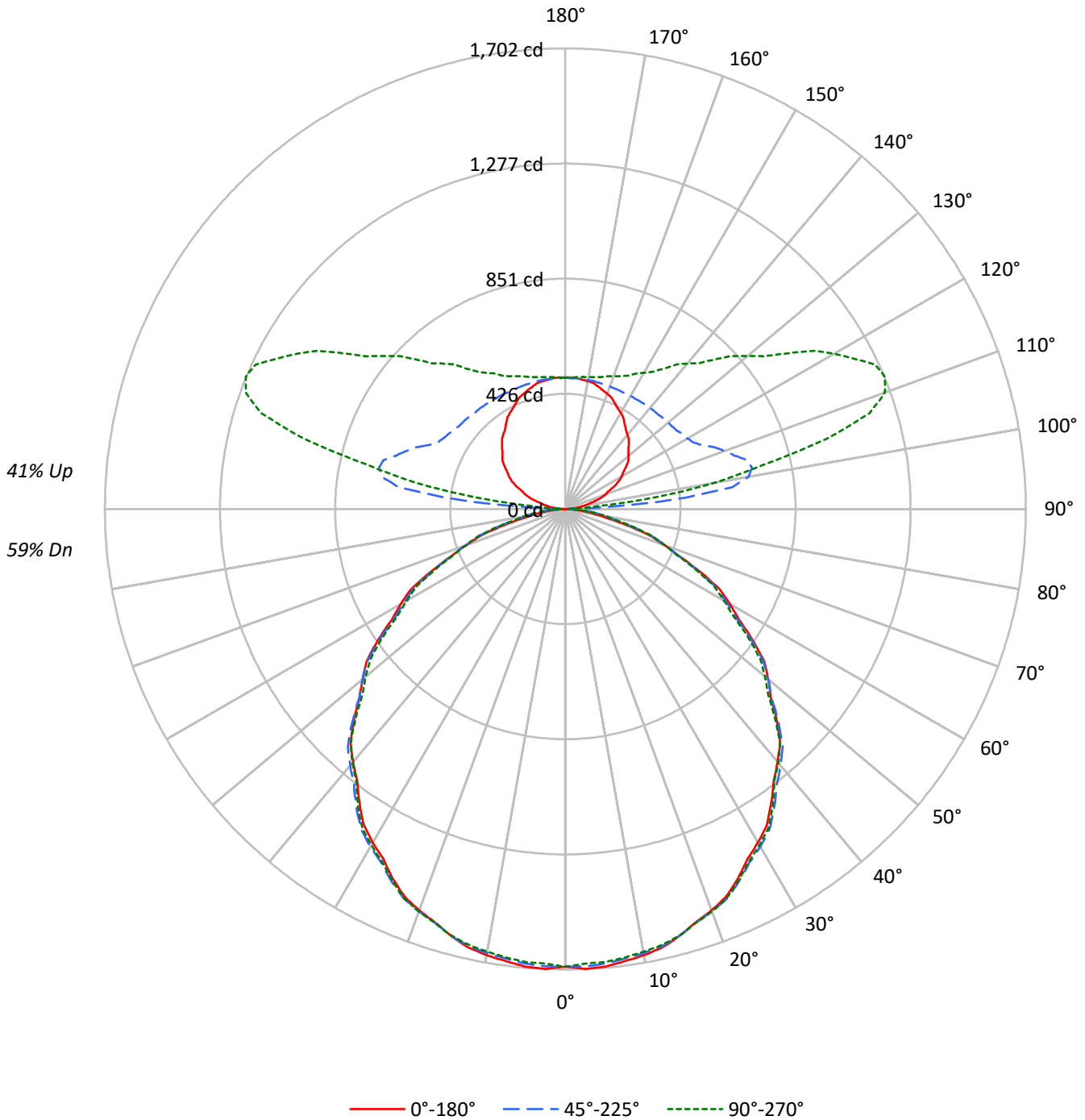
Lumens per Lamp: N/A
Luminaire Lumens: 7788.3 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78.1
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

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	2.1
10°-20°	459.4	5.9
20°-30°	695.7	8.9
30°-40°	834.0	10.7
40°-50°	850.4	10.9
50°-60°	742.3	9.5
60°-70°	531.4	6.8
70°-80°	273.7	3.5
80°-90°	71.1	0.9
90°-100°	233.1	3.0
100°-110°	633.2	8.1
110°-120°	651.0	8.4
120°-130°	520.5	6.7
130°-140°	409.0	5.3
140°-150°	313.6	4.0
150°-160°	225.5	2.9
160°-170°	137.9	1.8
170°-180°	46.5	0.6
0°-30°	1315.1	16.9
0°-40°	2149.1	27.6
0°-60°	3741.9	48.0
0°-90°	4618.1	59.3
90°-120°	1517.2	19.5
90°-150°	2760.3	35.4
90°-180°	3170.0	40.7
0°-180°	7788.3	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	4
95°	34	128	406	177	119	36
105°	112	175	696	1060	998	119
115°	200	243	557	1109	1263	197
125°	275	313	504	850	1002	245
135°	331	368	490	692	781	256
145°	382	410	484	588	632	240
155°	432	448	481	528	543	199
165°	468	474	482	503	504	132
175°	486	487	484	490	489	46
180°	486	486	486	486	486	

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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	14.1	14.1
92.5°	14.1	63.8	110.8	47.6	40.3
95°	34.3	127.5	405.9	176.7	118.7
97.5°	56.8	140.8	622.3	484.1	340.0
100°	71.8	149.7	688.5	697.9	563.6
102.5°	86.8	158.5	706.0	863.1	744.7
105°	112.4	175.0	696.3	1060.2	997.6
107.5°	138.9	194.2	656.0	1161.9	1179.3
110°	157.7	208.1	626.0	1182.0	1256.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.9	221.8	596.1	1165.3	1278.0
115°	199.8	242.6	557.3	1108.8	1263.0
117.5°	224.2	265.1	532.7	1028.7	1202.4
120°	240.4	280.1	521.4	975.0	1147.5
122.5°	254.2	293.8	513.9	921.1	1087.5
125°	274.8	312.9	504.3	849.6	1002.3
127.5°	293.2	331.0	499.0	795.4	926.4
130°	304.4	341.1	496.5	761.4	878.9
132.5°	315.7	352.3	494.0	732.4	836.5
135°	331.0	367.6	490.2	692.1	780.6
137.5°	347.5	380.8	488.3	656.5	730.9
140°	357.5	389.6	487.1	633.8	701.0
142.5°	367.5	397.1	485.8	616.1	672.2
145°	382.5	410.0	484.0	588.0	632.3
147.5°	399.4	422.9	482.4	565.9	600.7
150°	410.6	430.4	482.4	553.3	580.8
152.5°	419.3	436.7	481.2	541.9	564.5
155°	432.4	447.7	480.8	528.0	543.3
157.5°	445.3	457.2	480.8	518.6	530.2
160°	452.7	463.4	480.8	512.3	521.4
162.5°	460.2	468.5	482.1	507.2	513.9
165°	468.4	474.5	482.4	502.7	504.3
167.5°	476.8	479.8	484.0	497.4	498.6
170°	479.3	482.3	484.0	494.9	494.9
172.5°	481.8	483.6	484.0	492.4	492.4
175°	485.5	487.1	484.0	490.2	488.7
177.5°	486.8	486.8	483.0	488.0	485.5
180°	485.5	485.5	485.5	485.5	485.5

(END OF REPORT)