

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: P563395

Luminaire Tested: **SQ4-PP3-075U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563395
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

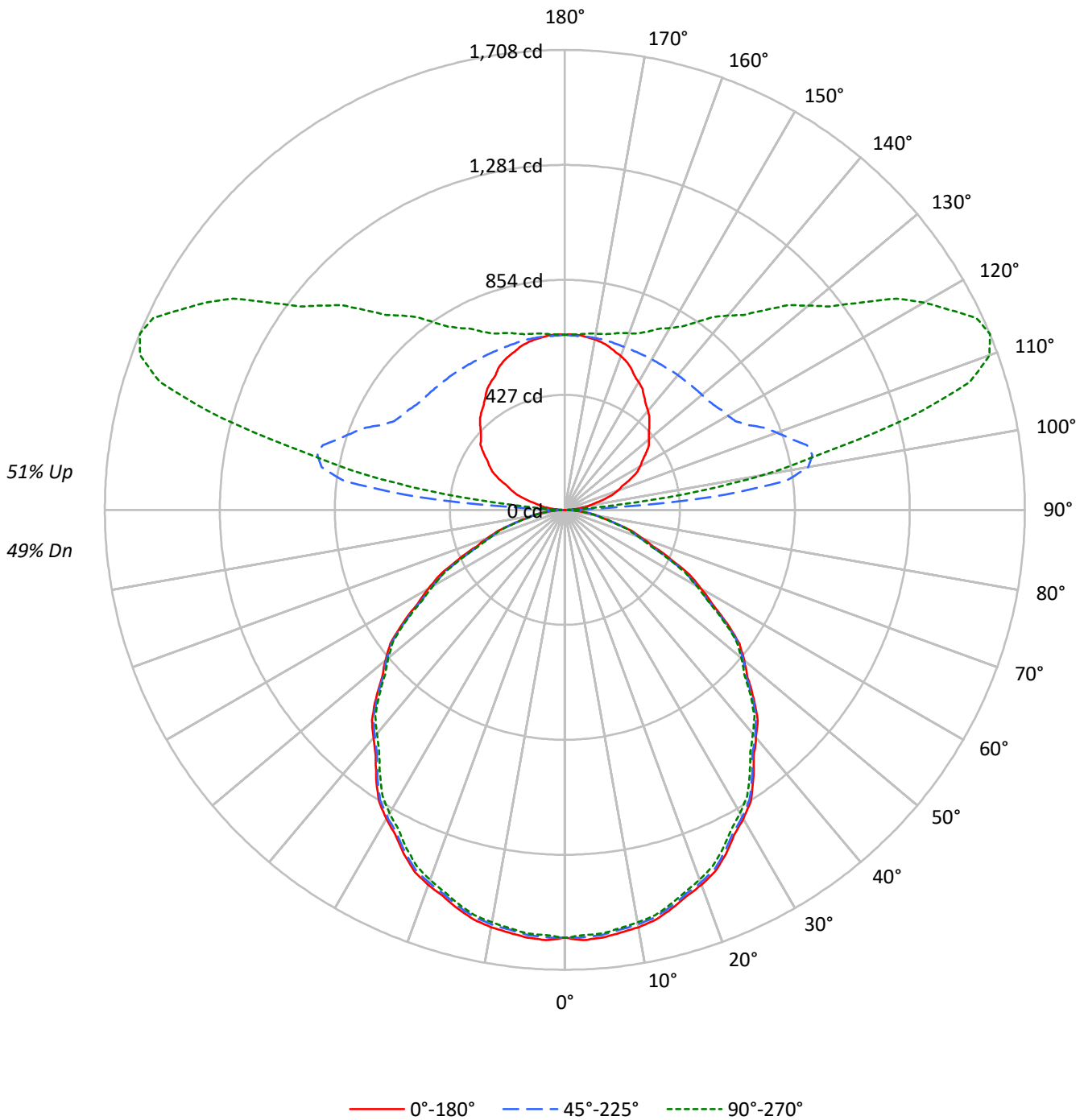
Lumens per Lamp: N/A
Luminaire Lumens: 8308.2 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42				
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22				
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9775	9775	9775
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9713	9659
20°	9701	9646	9574
25°	9585	9520	9425
30°	9408	9359	9240
35°	9162	9100	8984
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7179	6974	6939
65°	6325	6062	6041
70°	5462	5235	5235
75°	4701	4634	4568
80°	4144	4194	4095
85°	3246	3536	3536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	1.8
10°-20°	429.1	5.2
20°-30°	642.8	7.7
30°-40°	753.9	9.1
40°-50°	756.3	9.1
50°-60°	645.2	7.8
60°-70°	420.8	5.1
70°-80°	211.1	2.5
80°-90°	60.1	0.7
90°-100°	306.9	3.7
100°-110°	844.3	10.2
110°-120°	871.5	10.5
120°-130°	698.2	8.4
130°-140°	548.4	6.6
140°-150°	420.3	5.1
150°-160°	302.2	3.6
160°-170°	184.8	2.2
170°-180°	62.3	0.7
0°-30°	1222.2	14.7
0°-40°	1976.1	23.8
0°-60°	3377.6	40.7
0°-90°	4069.5	49.0
90°-120°	2022.6	24.3
90°-150°	3689.5	44.4
90°-180°	4239.0	51.0
0°-180°	8308.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1595	1580	1585	1580	1580	151
15°	1534	1519	1525	1520	1517	433
25°	1412	1396	1403	1390	1389	649
35°	1220	1208	1212	1198	1196	762
45°	992	985	985	975	975	764
55°	736	733	726	722	720	654
65°	435	426	416	414	415	434
75°	198	198	195	194	192	215
85°	46	50	50	50	50	54
90°	1	5	10	12	12	5
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.3	1589.3	1589.3	1589.3	1589.3
2.5°	1599.4	1586.3	1589.3	1587.0	1580.4
5°	1594.9	1579.9	1585.2	1579.6	1579.6
7.5°	1584.1	1567.7	1572.9	1567.3	1567.1
10°	1574.0	1557.7	1562.9	1557.3	1555.9
12.5°	1559.5	1543.2	1549.5	1542.8	1542.5
15°	1533.6	1518.6	1525.3	1519.6	1516.9
17.5°	1504.4	1488.0	1496.0	1488.2	1487.1
20°	1482.1	1465.7	1473.7	1462.6	1462.6
22.5°	1455.3	1439.0	1448.1	1433.6	1433.6
25°	1412.4	1396.1	1402.7	1390.1	1388.8
27.5°	1361.5	1345.4	1352.3	1338.1	1337.8
30°	1324.7	1309.7	1317.7	1302.4	1301.0
32.5°	1284.6	1270.7	1276.5	1261.1	1259.8
35°	1220.2	1208.0	1211.9	1197.9	1196.5
37.5°	1152.5	1140.0	1144.4	1132.5	1131.9
40°	1104.6	1096.4	1097.6	1087.8	1085.1
42.5°	1060.0	1050.8	1052.0	1042.2	1041.6
45°	991.8	985.0	984.8	975.1	975.1
47.5°	919.3	914.2	912.7	904.6	904.3
50°	869.2	865.1	863.6	856.6	855.3
52.5°	816.8	814.9	810.1	804.3	804.0
55°	735.5	732.7	725.7	721.5	720.2
57.5°	647.2	641.7	633.8	627.7	628.8
60°	583.6	578.2	566.9	564.1	564.1
62.5°	522.4	515.8	504.5	500.7	502.9
65°	434.6	426.4	416.5	413.7	415.1
67.5°	354.9	347.6	336.8	336.8	335.7
70°	303.7	299.6	291.1	291.1	291.1
72.5°	258.0	256.1	249.9	249.9	248.8
75°	197.8	197.8	195.0	193.6	192.2
77.5°	148.2	148.8	147.4	145.9	143.5
80°	117.0	119.7	118.4	117.0	115.6
82.5°	88.0	90.8	90.5	88.0	87.8
85°	46.0	50.1	50.1	50.1	50.1
87.5°	12.5	17.7	19.8	20.3	21.4
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)