

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: P562700

Luminaire Tested: **SQ4-PC3-075U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562700
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-050D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

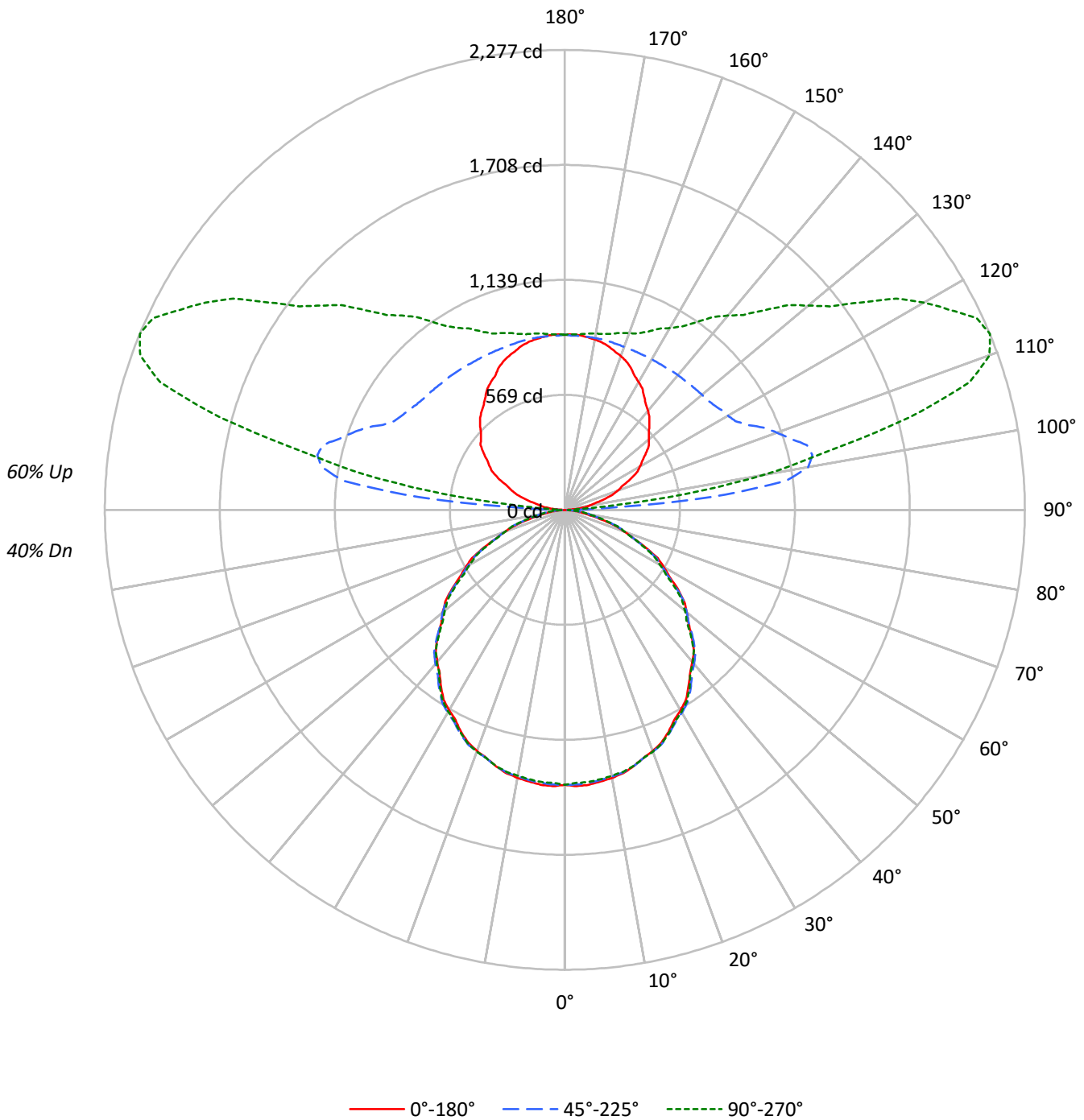
Lumens per Lamp: N/A
Luminaire Lumens: 9368.9 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40				
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34				
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28				
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24				
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20				
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18				
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15				
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14				
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12				
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6279	6279	6279
5°	6327	6286	6263
10°	6312	6282	6264
15°	6278	6278	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5913	5996	5935
45°	5805	5847	5756
50°	5654	5654	5563
55°	5474	5403	5322
60°	5210	5105	5024
65°	4815	4719	4677
70°	4216	4250	4232
75°	3392	3752	3773
80°	2410	3180	3214
85°	1466	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.4
10°-20°	369.7	3.9
20°-30°	559.9	6.0
30°-40°	671.2	7.2
40°-50°	684.4	7.3
50°-60°	597.4	6.4
60°-70°	427.7	4.6
70°-80°	220.3	2.4
80°-90°	57.9	0.6
90°-100°	409.2	4.4
100°-110°	1125.7	12.0
110°-120°	1161.9	12.4
120°-130°	931.0	9.9
130°-140°	731.2	7.8
140°-150°	560.3	6.0
150°-160°	402.9	4.3
160°-170°	246.4	2.6
170°-180°	83.0	0.9
0°-30°	1058.4	11.3
0°-40°	1729.6	18.5
0°-60°	3011.4	32.1
0°-90°	3717.3	39.7
90°-120°	2696.8	28.8
90°-150°	4919.3	52.5
90°-180°	5652.0	60.3
0°-180°	9368.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1366	1353	1358	1354	1352	130
15°	1315	1304	1315	1315	1313	371
25°	1214	1205	1223	1219	1219	559
35°	1068	1065	1084	1076	1076	668
45°	890	887	896	885	882	685
55°	681	672	672	662	662	607
65°	441	431	432	428	428	436
75°	190	199	210	212	212	206
85°	28	42	50	52	50	38
90°	2	7	13	17	17	5
95°	61	223	724	309	198	64
105°	201	310	1240	1889	1763	212
115°	356	434	995	1981	2248	352
125°	491	560	903	1527	1789	438
135°	592	658	877	1235	1397	457
145°	685	732	864	1052	1133	429
155°	775	800	858	946	973	356
165°	838	849	862	897	903	236
175°	868	869	864	875	873	82
180°	868	868	868	868	868	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.2	1361.2	1361.2	1361.2	1361.2
2.5°	1369.3	1357.5	1361.2	1358.1	1353.2
5°	1366.3	1352.7	1357.5	1353.7	1352.4
7.5°	1356.5	1342.9	1349.1	1346.6	1345.4
10°	1347.4	1333.8	1341.1	1338.5	1337.3
12.5°	1335.3	1322.7	1331.0	1328.5	1328.2
15°	1314.6	1303.5	1314.6	1314.6	1313.3
17.5°	1288.6	1278.5	1290.4	1291.1	1290.4
20°	1270.5	1259.4	1274.3	1273.0	1274.3
22.5°	1248.3	1239.2	1255.1	1251.9	1253.1
25°	1213.8	1205.1	1222.6	1218.8	1218.8
27.5°	1172.9	1166.8	1185.8	1181.8	1181.8
30°	1145.7	1139.6	1159.6	1154.5	1154.5
32.5°	1115.5	1111.3	1130.3	1124.3	1124.3
35°	1067.6	1065.1	1084.0	1076.4	1076.4
37.5°	1018.2	1015.9	1033.0	1023.9	1020.9
40°	981.9	980.6	995.7	985.6	985.6
42.5°	945.6	944.3	957.4	945.3	945.3
45°	889.8	887.4	896.2	884.8	882.3
47.5°	829.1	826.6	832.1	819.7	818.5
50°	787.8	785.3	787.8	776.4	775.2
52.5°	745.4	741.0	741.4	730.0	729.8
55°	680.6	672.0	671.8	661.7	661.7
57.5°	612.1	600.7	601.7	593.1	591.9
60°	564.7	552.3	553.3	545.7	544.5
62.5°	518.3	504.0	506.9	498.4	498.1
65°	441.1	431.3	432.3	428.5	428.5
67.5°	367.0	357.9	364.5	361.5	361.2
70°	312.6	306.4	315.1	315.1	313.8
72.5°	262.2	261.9	272.8	272.8	273.5
75°	190.3	198.9	210.5	211.7	211.7
77.5°	127.0	142.3	155.0	155.5	155.3
80°	90.7	108.0	119.7	122.2	121.0
82.5°	61.5	79.7	89.5	92.0	90.7
85°	27.7	42.5	50.4	51.6	50.4
87.5°	8.4	18.4	22.8	23.4	21.5
90°	1.8	7.3	12.9	16.6	16.6
92.5°	25.5	108.9	188.6	72.4	59.4
95°	60.9	223.3	723.6	309.4	197.5
97.5°	99.3	247.7	1104.2	850.8	600.3
100°	127.4	262.7	1223.8	1235.2	1007.8
102.5°	153.9	280.6	1254.8	1532.4	1323.8
105°	201.2	309.5	1240.4	1889.1	1762.7
107.5°	246.2	345.1	1169.9	2063.7	2101.3
110°	278.7	369.0	1116.7	2107.2	2237.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	308.3	395.6	1063.6	2079.2	2277.0
115°	356.2	433.8	994.9	1981.1	2248.2
117.5°	402.0	473.5	951.3	1843.4	2145.6
120°	430.1	498.7	932.1	1740.3	2052.5
122.5°	455.2	523.8	918.8	1649.9	1946.2
125°	491.0	559.6	902.6	1526.9	1788.6
127.5°	524.9	590.3	891.9	1424.3	1653.8
130°	542.7	609.4	886.0	1363.3	1572.6
132.5°	563.3	630.1	881.6	1309.7	1498.8
135°	592.5	657.5	876.8	1234.8	1397.3
137.5°	619.8	680.1	872.7	1174.4	1308.3
140°	640.5	696.4	871.2	1134.2	1255.2
142.5°	658.2	709.8	868.3	1098.4	1202.0
145°	684.8	731.7	863.8	1052.1	1133.3
147.5°	713.2	753.6	861.6	1011.1	1076.1
150°	730.9	767.0	860.1	988.7	1039.2
152.5°	747.2	780.4	858.7	969.3	1011.1
155°	775.2	800.5	858.3	945.7	972.7
157.5°	795.5	816.1	858.3	926.3	945.1
160°	810.3	826.6	858.3	915.9	930.3
162.5°	822.1	835.5	859.8	906.9	918.5
165°	838.0	848.8	862.0	897.2	902.6
167.5°	849.1	857.4	863.8	889.0	890.4
170°	856.5	861.9	863.8	886.0	886.0
172.5°	862.4	864.9	863.8	881.5	880.1
175°	867.5	869.3	863.8	874.9	873.1
177.5°	869.0	869.0	863.1	871.9	869.0
180°	867.5	867.5	867.5	867.5	867.5

(END OF REPORT)