

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: P561546

Luminaire Tested: **SQ4-PC3-075U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561546
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7392.2 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

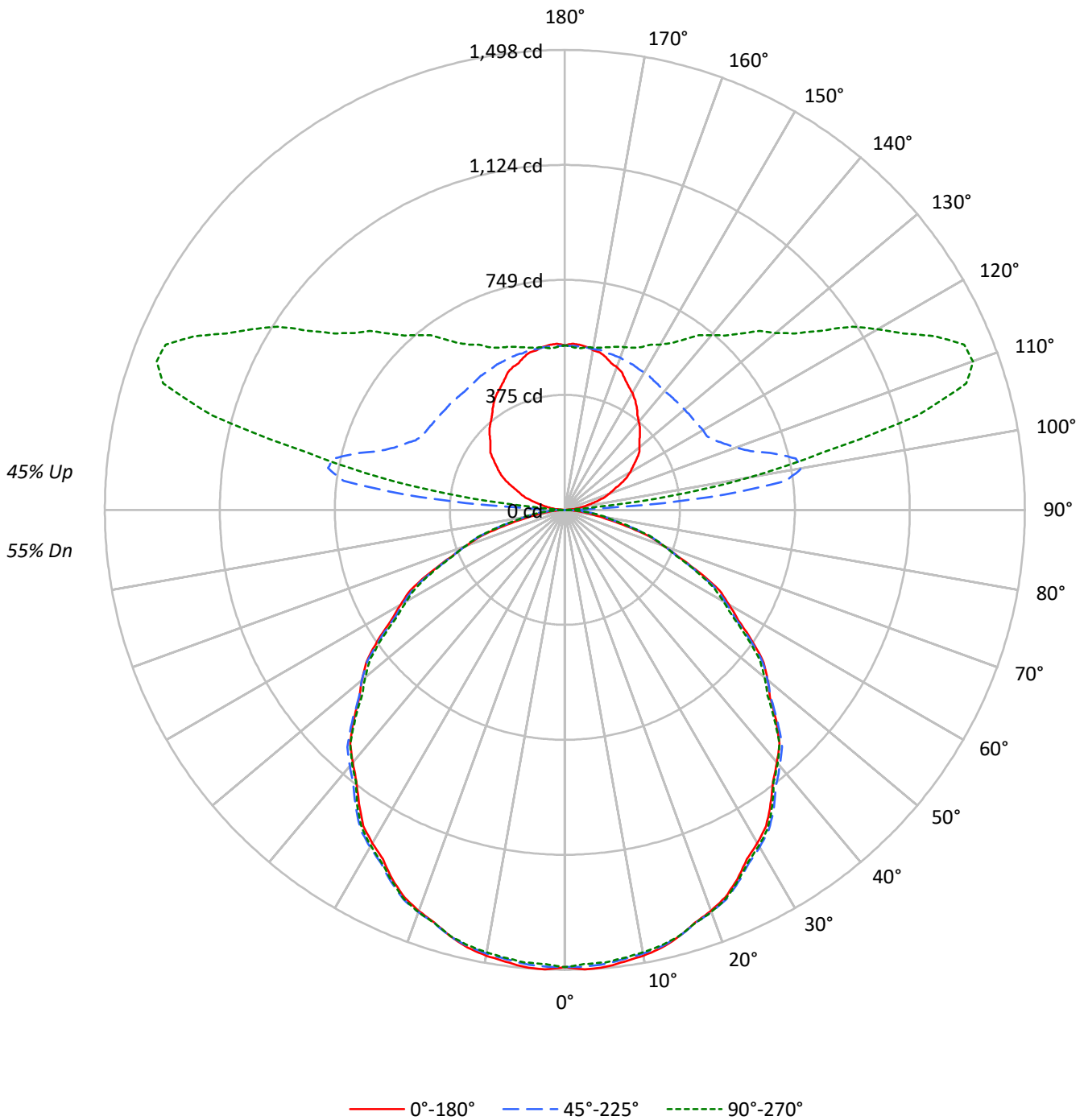
Input Watts (W): 66.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	46		
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17		
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13742	13742	13742
5°	13846	13756	13705
10°	13812	13747	13709
15°	13739	13739	13727
20°	13649	13690	13690
25°	13520	13619	13576
30°	13355	13517	13459
35°	13156	13359	13266
40°	12939	13122	12989
45°	12705	12795	12596
50°	12373	12373	12175
55°	11979	11824	11646
60°	11402	11171	10994
65°	10538	10326	10237
70°	9226	9301	9263
75°	7422	8210	8259
80°	5276	6960	7035
85°	3208	5843	5843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.9
10°-20°	404.5	5.5
20°-30°	612.6	8.3
30°-40°	734.4	9.9
40°-50°	748.9	10.1
50°-60°	653.7	8.8
60°-70°	468.0	6.3
70°-80°	241.0	3.3
80°-90°	60.9	0.8
90°-100°	244.1	3.3
100°-110°	694.5	9.4
110°-120°	665.4	9.0
120°-130°	526.6	7.1
130°-140°	422.7	5.7
140°-150°	330.9	4.5
150°-160°	242.1	3.3
160°-170°	150.0	2.0
170°-180°	50.9	0.7
0°-30°	1158.1	15.7
0°-40°	1892.5	25.6
0°-60°	3295.0	44.6
0°-90°	4065.0	55.0
90°-120°	1603.9	21.7
90°-150°	2884.1	39.0
90°-180°	3327.0	45.0
0°-180°	7392.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1495	1480	1485	1481	1480	142
15°	1438	1426	1438	1438	1437	406
25°	1328	1319	1338	1334	1334	611
35°	1168	1165	1186	1178	1178	731
45°	974	971	981	968	965	749
55°	745	735	735	724	724	664
65°	483	472	473	469	469	477
75°	208	218	230	232	232	225
85°	30	46	55	56	55	41
90°	0	0	0	0	0	2
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1498.3	1485.3	1489.5	1486.0	1480.6
5°	1495.0	1480.1	1485.3	1481.2	1479.8
7.5°	1484.2	1469.4	1476.2	1473.4	1472.1
10°	1474.3	1459.5	1467.4	1464.6	1463.3
12.5°	1461.1	1447.3	1456.4	1453.6	1453.3
15°	1438.4	1426.3	1438.4	1438.4	1437.1
17.5°	1410.0	1399.0	1412.0	1412.8	1412.0
20°	1390.2	1378.0	1394.3	1393.0	1394.3
22.5°	1365.9	1355.9	1373.3	1369.8	1371.1
25°	1328.1	1318.7	1337.8	1333.6	1333.6
27.5°	1283.4	1276.7	1297.5	1293.1	1293.1
30°	1253.6	1246.9	1268.8	1263.3	1263.3
32.5°	1220.5	1215.9	1236.8	1230.2	1230.2
35°	1168.1	1165.4	1186.1	1177.8	1177.8
37.5°	1114.1	1111.6	1130.3	1120.3	1117.1
40°	1074.3	1073.0	1089.5	1078.5	1078.5
42.5°	1034.6	1033.3	1047.6	1034.3	1034.3
45°	973.7	971.0	980.6	968.1	965.4
47.5°	907.2	904.5	910.5	897.0	895.6
50°	862.0	859.3	862.0	849.5	848.2
52.5°	815.6	810.8	811.2	798.8	798.5
55°	744.7	735.3	735.1	724.0	724.0
57.5°	669.7	657.3	658.4	649.0	647.6
60°	617.9	604.4	605.4	597.1	595.8
62.5°	567.1	551.5	554.7	545.3	545.0
65°	482.7	471.9	473.0	468.9	468.9
67.5°	401.6	391.6	398.8	395.5	395.3
70°	342.0	335.3	344.8	344.8	343.4
72.5°	286.9	286.6	298.4	298.5	299.3
75°	208.2	217.7	230.3	231.7	231.7
77.5°	139.0	155.7	169.6	170.2	169.9
80°	99.3	118.2	131.0	133.7	132.4
82.5°	67.3	87.3	97.9	100.6	99.3
85°	30.3	46.5	55.2	56.5	55.2
87.5°	8.8	18.5	22.1	22.0	19.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)