

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: P561556

Luminaire Tested: **SQ4-PC3-075U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561556
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-125D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

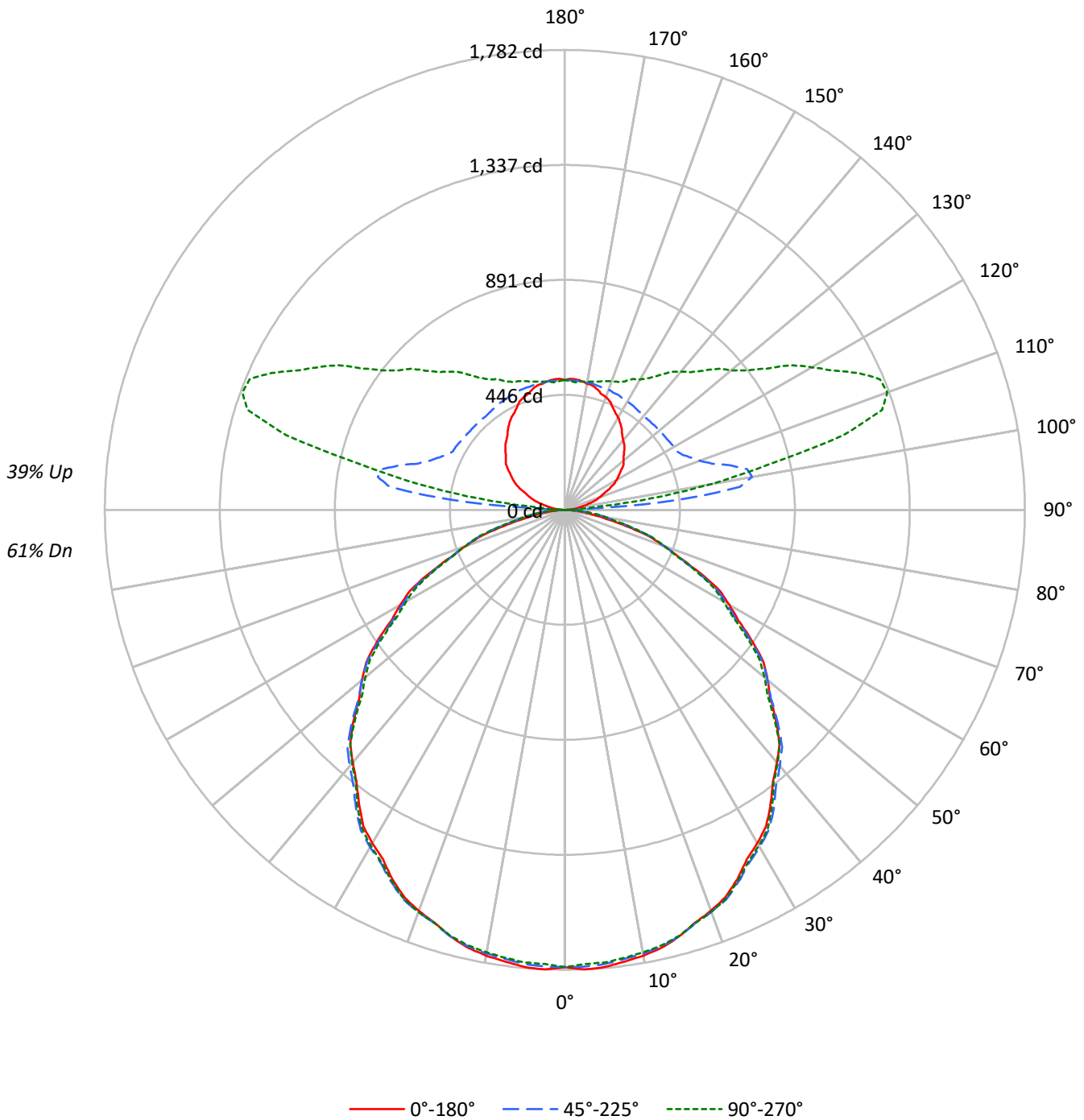
Lumens per Lamp: N/A
Luminaire Lumens: 7961.5 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.2
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	88	94	90	86	83	78	76	74	68	66	64	58	57	56	51
2	91	84	78	72	85	79	73	68	69	65	61	60	57	54	51	49	47	43
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40	36
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	38	34	37	33	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26	24
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16347	16347	16347
5°	16470	16363	16303
10°	16430	16353	16307
15°	16344	16344	16328
20°	16236	16285	16285
25°	16082	16199	16150
30°	15887	16079	16009
35°	15650	15891	15780
40°	15392	15609	15451
45°	15112	15219	14984
50°	14717	14717	14481
55°	14250	14065	13854
60°	13563	13289	13077
65°	12535	12284	12177
70°	10976	11063	11020
75°	8830	9767	9824
80°	6275	8278	8368
85°	3822	6944	6944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	2.1
10°-20°	481.2	6.0
20°-30°	728.7	9.2
30°-40°	873.6	11.0
40°-50°	890.8	11.2
50°-60°	777.6	9.8
60°-70°	556.7	7.0
70°-80°	286.7	3.6
80°-90°	72.5	0.9
90°-100°	229.3	2.9
100°-110°	652.5	8.2
110°-120°	625.2	7.9
120°-130°	494.8	6.2
130°-140°	397.1	5.0
140°-150°	310.9	3.9
150°-160°	227.5	2.9
160°-170°	140.9	1.8
170°-180°	47.8	0.6
0°-30°	1377.6	17.3
0°-40°	2251.2	28.3
0°-60°	3919.6	49.2
0°-90°	4835.5	60.7
90°-120°	1507.0	18.9
90°-150°	2709.8	34.0
90°-180°	3126.0	39.3
0°-180°	7961.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1778	1761	1767	1762	1760	169
15°	1711	1697	1711	1711	1709	482
25°	1580	1569	1591	1586	1586	727
35°	1390	1386	1411	1401	1401	869
45°	1158	1155	1166	1152	1148	892
55°	886	875	874	861	861	790
65°	574	561	563	558	558	568
75°	248	259	274	276	276	268
85°	36	55	66	67	66	49
90°	0	0	0	0	0	2
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1782.3	1766.9	1771.8	1767.7	1761.3
5°	1778.3	1760.7	1766.8	1761.9	1760.3
7.5°	1765.5	1747.9	1756.0	1752.7	1751.1
10°	1753.7	1736.1	1745.5	1742.2	1740.6
12.5°	1738.0	1721.6	1732.4	1729.1	1728.8
15°	1711.1	1696.6	1711.1	1711.0	1709.4
17.5°	1677.3	1664.1	1679.6	1680.5	1679.6
20°	1653.6	1639.2	1658.6	1657.0	1658.6
22.5°	1624.8	1612.9	1633.6	1629.4	1631.0
25°	1579.8	1568.6	1591.3	1586.4	1586.4
27.5°	1526.7	1518.7	1543.4	1538.2	1538.2
30°	1491.2	1483.2	1509.3	1502.7	1502.7
32.5°	1451.9	1446.4	1471.2	1463.3	1463.3
35°	1389.5	1386.3	1410.9	1401.0	1401.0
37.5°	1325.2	1322.3	1344.6	1332.7	1328.8
40°	1278.0	1276.4	1296.0	1282.9	1282.9
42.5°	1230.7	1229.1	1246.1	1230.4	1230.4
45°	1158.2	1155.0	1166.4	1151.6	1148.4
47.5°	1079.1	1075.9	1083.1	1067.0	1065.4
50°	1025.3	1022.1	1025.3	1010.5	1008.9
52.5°	970.2	964.4	965.0	950.2	949.9
55°	885.9	874.7	874.4	861.3	861.3
57.5°	796.6	781.9	783.2	772.0	770.4
60°	735.0	718.9	720.2	710.3	708.7
62.5°	674.6	656.0	659.8	648.7	648.3
65°	574.2	561.4	562.7	557.8	557.8
67.5°	477.7	465.9	474.4	470.5	470.2
70°	406.9	398.8	410.1	410.1	408.5
72.5°	341.2	340.9	355.0	355.0	356.0
75°	247.7	258.9	274.0	275.6	275.6
77.5°	165.4	185.3	201.8	202.4	202.1
80°	118.1	140.6	155.8	159.1	157.5
82.5°	80.1	103.8	116.5	119.7	118.1
85°	36.1	55.3	65.6	67.2	65.6
87.5°	10.5	22.0	26.2	26.2	23.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)