

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: P562628

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562628  
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-830-1D-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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

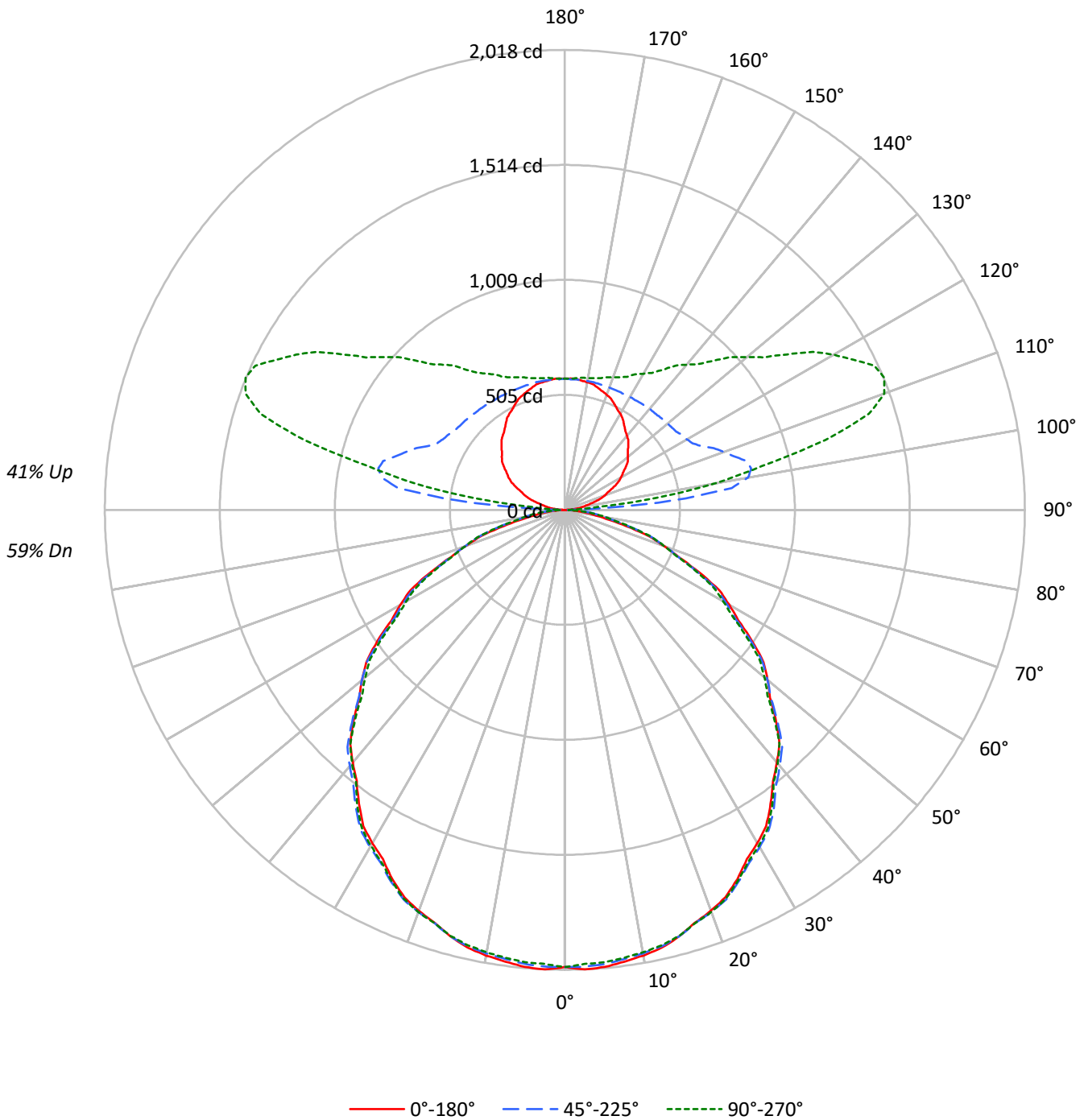
Lumens per Lamp: N/A  
Luminaire Lumens: 9238.2 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

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°	9255	9255	9255
5°	9325	9265	9230
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9065
35°	8861	8997	8934
40°	8714	8838	8748
45°	8556	8617	8484
50°	8333	8333	8199
55°	8068	7964	7844
60°	7678	7524	7404
65°	7097	6955	6894
70°	6214	6264	6239
75°	5000	5529	5563
80°	3555	4689	4737
85°	2165	3933	3933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	2.1
10°-20°	544.9	5.9
20°-30°	825.2	8.9
30°-40°	989.3	10.7
40°-50°	1008.7	10.9
50°-60°	880.5	9.5
60°-70°	630.4	6.8
70°-80°	324.7	3.5
80°-90°	84.3	0.9
90°-100°	276.5	3.0
100°-110°	751.0	8.1
110°-120°	772.2	8.4
120°-130°	617.4	6.7
130°-140°	485.1	5.3
140°-150°	372.0	4.0
150°-160°	267.5	2.9
160°-170°	163.6	1.8
170°-180°	55.1	0.6
0°-30°	1559.9	16.9
0°-40°	2549.2	27.6
0°-60°	4438.4	48.0
0°-90°	5477.8	59.3
90°-120°	1799.7	19.5
90°-150°	3274.1	35.4
90°-180°	3760.0	40.7
0°-180°	9238.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2014	1994	2001	1995	1993	191
15°	1938	1921	1938	1938	1936	546
25°	1789	1776	1802	1796	1796	823
35°	1574	1570	1598	1586	1586	984
45°	1312	1308	1321	1304	1300	1010
55°	1003	990	990	975	975	894
65°	650	636	637	632	632	643
75°	280	293	310	312	312	303
85°	41	63	74	76	74	56
90°	2	7	13	17	17	4
95°	41	151	482	210	141	43
105°	133	208	826	1258	1183	142
115°	237	288	661	1315	1498	234
125°	326	371	598	1008	1189	291
135°	393	436	582	821	926	304
145°	454	486	574	698	750	285
155°	513	531	570	626	644	237
165°	556	563	572	596	598	157
175°	576	578	574	581	580	55
180°	576	576	576	576	576	

TEST NUMBER: P562628

CATALOG NUMBER: SQ4-PC3-050U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2006.3	2006.3	2006.3	2006.3	2006.3
2.5°	2018.2	2000.8	2006.3	2001.7	1994.4
5°	2013.7	1993.8	2000.7	1995.1	1993.3
7.5°	1999.3	1979.3	1988.5	1984.7	1982.9
10°	1985.9	1965.9	1976.6	1972.8	1971.0
12.5°	1968.0	1949.5	1961.7	1958.0	1957.6
15°	1937.6	1921.2	1937.6	1937.5	1935.7
17.5°	1899.3	1884.4	1901.9	1903.0	1901.9
20°	1872.6	1856.2	1878.1	1876.3	1878.1
22.5°	1839.9	1826.4	1849.9	1845.1	1846.9
25°	1789.0	1776.2	1802.0	1796.4	1796.4
27.5°	1728.8	1719.7	1747.7	1741.8	1741.8
30°	1688.6	1679.6	1709.1	1701.7	1701.7
32.5°	1644.1	1637.9	1666.0	1657.1	1657.1
35°	1573.5	1569.8	1597.6	1586.5	1586.5
37.5°	1500.6	1497.4	1522.6	1509.1	1504.7
40°	1447.1	1445.3	1467.6	1452.7	1452.7
42.5°	1393.6	1391.8	1411.1	1393.3	1393.3
45°	1311.5	1307.9	1320.8	1304.0	1300.4
47.5°	1222.0	1218.4	1226.5	1208.2	1206.4
50°	1161.1	1157.4	1161.1	1144.3	1142.5
52.5°	1098.6	1092.1	1092.7	1076.0	1075.6
55°	1003.2	990.4	990.2	975.3	975.3
57.5°	902.1	885.4	886.9	874.2	872.4
60°	832.2	814.1	815.5	804.3	802.5
62.5°	763.9	742.8	747.2	734.5	734.2
65°	650.2	635.7	637.2	631.6	631.6
67.5°	541.0	527.5	537.2	532.8	532.4
70°	460.7	451.6	464.4	464.4	462.6
72.5°	386.4	386.0	402.0	402.0	403.1
75°	280.5	293.2	310.2	312.1	312.1
77.5°	187.3	209.8	228.5	229.2	228.9
80°	133.8	159.2	176.5	180.2	178.3
82.5°	90.7	117.5	131.9	135.6	133.8
85°	40.9	62.7	74.3	76.1	74.3
87.5°	12.3	26.4	32.3	33.0	30.1
90°	1.9	7.3	13.0	16.7	16.7
92.5°	16.7	75.7	131.5	56.5	47.8
95°	40.7	151.2	481.5	209.5	140.7
97.5°	67.4	167.0	738.1	574.3	403.3
100°	85.2	177.5	816.7	827.8	668.5
102.5°	103.0	188.1	837.4	1023.8	883.3
105°	133.3	207.6	825.9	1257.5	1183.3
107.5°	164.8	230.4	778.1	1378.2	1398.9
110°	187.0	246.8	742.6	1402.0	1490.7

TEST NUMBER: P562628

CATALOG NUMBER: SQ4-PC3-050U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	206.3	263.1	707.0	1382.3	1515.9
115°	237.0	287.7	661.1	1315.2	1498.1
117.5°	265.9	314.4	631.8	1220.2	1426.3
120°	285.2	332.3	618.5	1156.5	1361.1
122.5°	301.5	348.6	609.6	1092.6	1290.0
125°	325.9	371.2	598.1	1007.8	1188.9
127.5°	347.8	392.7	591.8	943.5	1098.9
130°	361.1	404.6	588.9	903.2	1042.6
132.5°	374.4	417.9	585.9	868.7	992.2
135°	392.6	436.0	581.5	820.9	925.9
137.5°	412.2	451.7	579.2	778.7	867.0
140°	424.1	462.1	577.8	751.8	831.5
142.5°	435.9	471.0	576.3	730.8	797.4
145°	453.7	486.3	574.1	697.5	750.0
147.5°	473.7	501.6	572.2	671.3	712.6
150°	487.0	510.6	572.2	656.3	688.9
152.5°	497.4	518.0	570.7	642.8	669.6
155°	513.0	531.1	570.4	626.3	644.4
157.5°	528.1	542.3	570.4	615.1	628.9
160°	537.0	549.7	570.4	607.6	618.5
162.5°	545.9	555.7	571.8	601.7	609.6
165°	555.5	562.8	572.2	596.3	598.1
167.5°	565.5	569.2	574.1	590.0	591.5
170°	568.5	572.1	574.1	587.0	587.0
172.5°	571.5	573.6	574.1	584.1	584.1
175°	575.9	577.7	574.1	581.4	579.6
177.5°	577.4	577.4	573.0	578.8	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)