

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: P562731

Luminaire Tested: **SQ4-PC3-075U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562731  
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-075D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

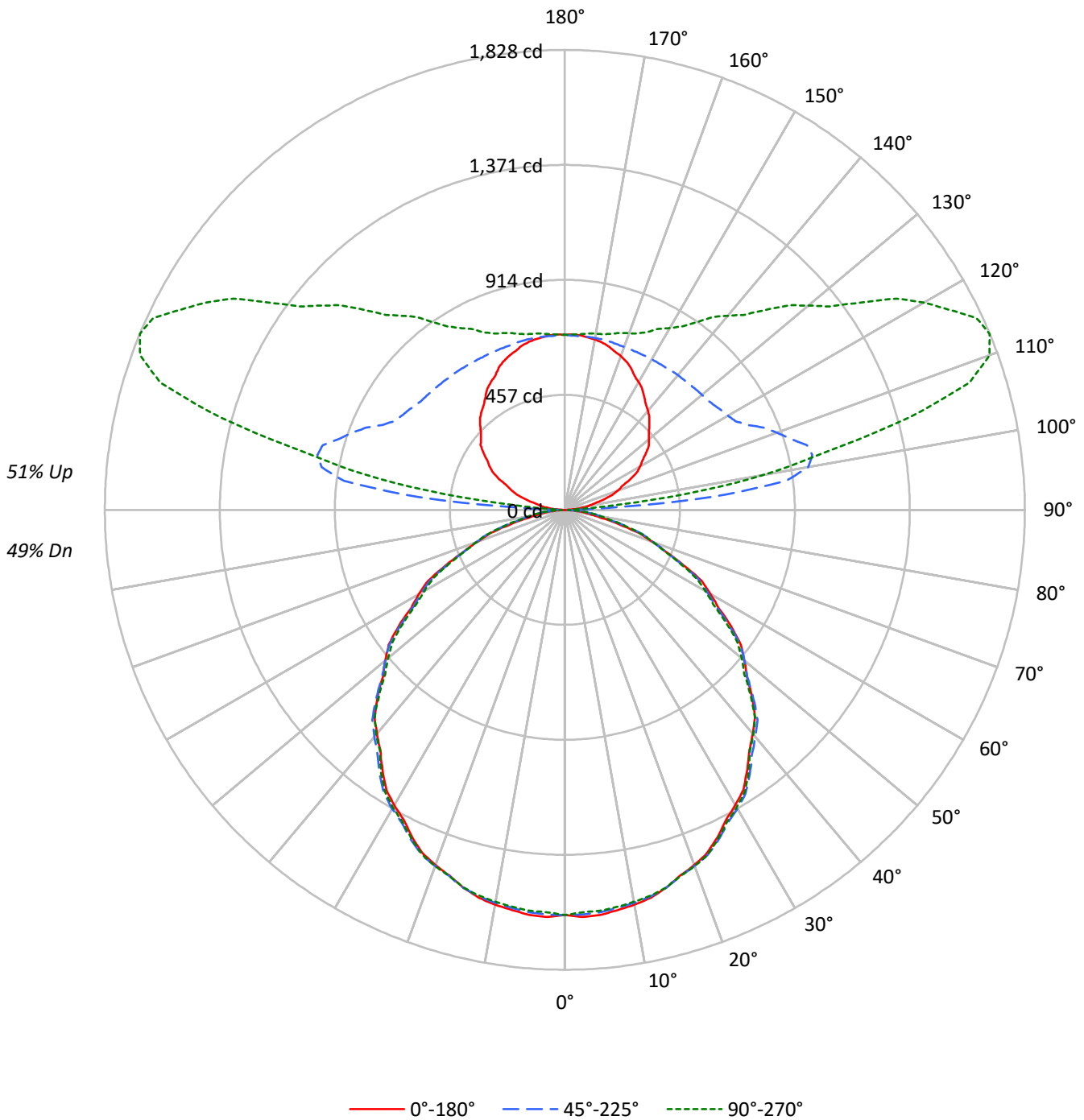
Lumens per Lamp: N/A  
Luminaire Lumens: 8932.2 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

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	99	99	99	99	83	83	83	69	69	69	55	55	55	49				49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47				42	
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40				35	
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34				29	
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29				25	
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20				17	
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16				14	
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14				12	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9878
10°	9954	9908	9880
15°	9903	9903	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9626	9742	9700
35°	9482	9628	9561
40°	9325	9457	9361
45°	9156	9221	9079
50°	8916	8916	8774
55°	8634	8522	8393
60°	8216	8051	7923
65°	7594	7443	7377
70°	6650	6703	6676
75°	5349	5917	5953
80°	3801	5016	5069
85°	2315	4206	4206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.4	1.7
10°-20°	437.3	4.9
20°-30°	662.3	7.4
30°-40°	794.0	8.9
40°-50°	809.6	9.1
50°-60°	706.7	7.9
60°-70°	505.9	5.7
70°-80°	260.6	2.9
80°-90°	67.7	0.8
90°-100°	328.4	3.7
100°-110°	903.5	10.1
110°-120°	932.6	10.4
120°-130°	747.2	8.4
130°-140°	586.8	6.6
140°-150°	449.7	5.0
150°-160°	323.3	3.6
160°-170°	197.7	2.2
170°-180°	66.6	0.7
0°-30°	1252.0	14.0
0°-40°	2045.9	22.9
0°-60°	3562.2	39.9
0°-90°	4396.4	49.2
90°-120°	2164.4	24.2
90°-150°	3948.2	44.2
90°-180°	4536.0	50.8
0°-180°	8932.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1610	1610	1610	1610	1610	
5°	1616	1600	1606	1601	1600	153
15°	1555	1542	1555	1555	1554	438
25°	1436	1426	1446	1442	1442	661
35°	1263	1260	1282	1273	1273	790
45°	1053	1050	1060	1047	1044	810
55°	805	795	795	783	783	718
65°	522	510	511	507	507	516
75°	225	235	249	250	250	243
85°	33	50	60	61	60	45
90°	2	6	10	13	13	5
95°	49	179	581	248	158	52
105°	162	248	996	1516	1415	170
115°	286	348	798	1590	1804	282
125°	394	449	724	1226	1436	352
135°	476	528	704	991	1121	367
145°	550	587	693	844	910	345
155°	622	642	689	759	781	286
165°	673	681	692	720	724	190
175°	696	698	693	702	701	66
180°	696	696	696	696	696	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1619.8	1605.8	1610.2	1606.5	1600.7
5°	1616.2	1600.2	1605.7	1601.2	1599.8
7.5°	1604.6	1588.5	1595.9	1592.9	1591.4
10°	1593.8	1577.8	1586.4	1583.4	1581.9
12.5°	1579.5	1564.6	1574.4	1571.5	1571.2
15°	1555.1	1541.9	1555.1	1555.0	1553.6
17.5°	1524.3	1512.4	1526.4	1527.3	1526.4
20°	1502.9	1489.8	1507.3	1505.9	1507.3
22.5°	1476.6	1465.8	1484.7	1480.8	1482.3
25°	1435.8	1425.6	1446.2	1441.7	1441.7
27.5°	1387.5	1380.2	1402.7	1397.9	1397.9
30°	1355.3	1348.0	1371.7	1365.7	1365.7
32.5°	1319.5	1314.5	1337.1	1329.9	1329.9
35°	1262.8	1259.9	1282.2	1273.3	1273.3
37.5°	1204.4	1201.8	1222.0	1211.2	1207.7
40°	1161.4	1160.0	1177.8	1165.9	1165.9
42.5°	1118.5	1117.1	1132.5	1118.2	1118.2
45°	1052.6	1049.7	1060.1	1046.6	1043.7
47.5°	980.7	977.8	984.3	969.7	968.2
50°	931.8	928.9	931.8	918.4	916.9
52.5°	881.7	876.5	877.0	863.5	863.3
55°	805.1	794.9	794.7	782.7	782.7
57.5°	724.0	710.6	711.8	701.6	700.1
60°	667.9	653.4	654.5	645.5	644.1
62.5°	613.1	596.2	599.7	589.5	589.2
65°	521.8	510.2	511.4	506.9	506.9
67.5°	434.2	423.4	431.2	427.6	427.3
70°	369.8	362.5	372.7	372.7	371.2
72.5°	310.1	309.8	322.6	322.7	323.5
75°	225.1	235.3	249.0	250.5	250.5
77.5°	150.3	168.4	183.4	184.0	183.7
80°	107.3	127.8	141.6	144.6	143.1
82.5°	72.8	94.3	105.9	108.8	107.3
85°	32.8	50.3	59.6	61.1	59.6
87.5°	9.8	21.2	25.9	26.5	24.1
90°	1.5	5.8	10.4	13.3	13.3
92.5°	20.4	87.4	151.4	58.1	47.7
95°	48.9	179.3	580.7	248.3	158.5
97.5°	79.7	198.8	886.2	682.8	481.8
100°	102.2	210.9	982.2	991.4	808.8
102.5°	123.5	225.2	1007.1	1229.9	1062.5
105°	161.5	248.4	995.5	1516.1	1414.7
107.5°	197.6	277.0	938.9	1656.3	1686.4
110°	223.7	296.1	896.3	1691.2	1795.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	247.4	317.5	853.6	1668.7	1827.5
115°	285.9	348.2	798.5	1590.0	1804.4
117.5°	322.7	380.0	763.5	1479.5	1722.0
120°	345.2	400.2	748.1	1396.7	1647.3
122.5°	365.3	420.4	737.4	1324.2	1562.0
125°	394.1	449.1	724.4	1225.5	1435.5
127.5°	421.3	473.7	715.8	1143.1	1327.3
130°	435.5	489.1	711.1	1094.1	1262.2
132.5°	452.1	505.7	707.5	1051.1	1202.9
135°	475.5	527.7	703.7	991.1	1121.4
137.5°	497.5	545.8	700.4	942.5	1050.0
140°	514.0	559.0	699.2	910.3	1007.4
142.5°	528.3	569.7	696.9	881.5	964.7
145°	549.6	587.3	693.3	844.4	909.6
147.5°	572.4	604.9	691.5	811.5	863.7
150°	586.6	615.6	690.3	793.5	834.0
152.5°	599.7	626.3	689.2	777.9	811.5
155°	622.2	642.5	688.9	759.0	780.7
157.5°	638.5	655.0	688.9	743.4	758.5
160°	650.3	663.4	688.9	735.0	746.6
162.5°	659.8	670.5	690.0	727.9	737.1
165°	672.6	681.2	691.8	720.1	724.4
167.5°	681.4	688.1	693.3	713.5	714.6
170°	687.4	691.7	693.3	711.1	711.1
172.5°	692.1	694.1	693.3	707.5	706.3
175°	696.3	697.7	693.3	702.2	700.7
177.5°	697.4	697.4	692.7	699.8	697.4
180°	696.3	696.3	696.3	696.3	696.3

(END OF REPORT)