

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: P562805

Luminaire Tested: **SQ4-PC3-0U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562805  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-050D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

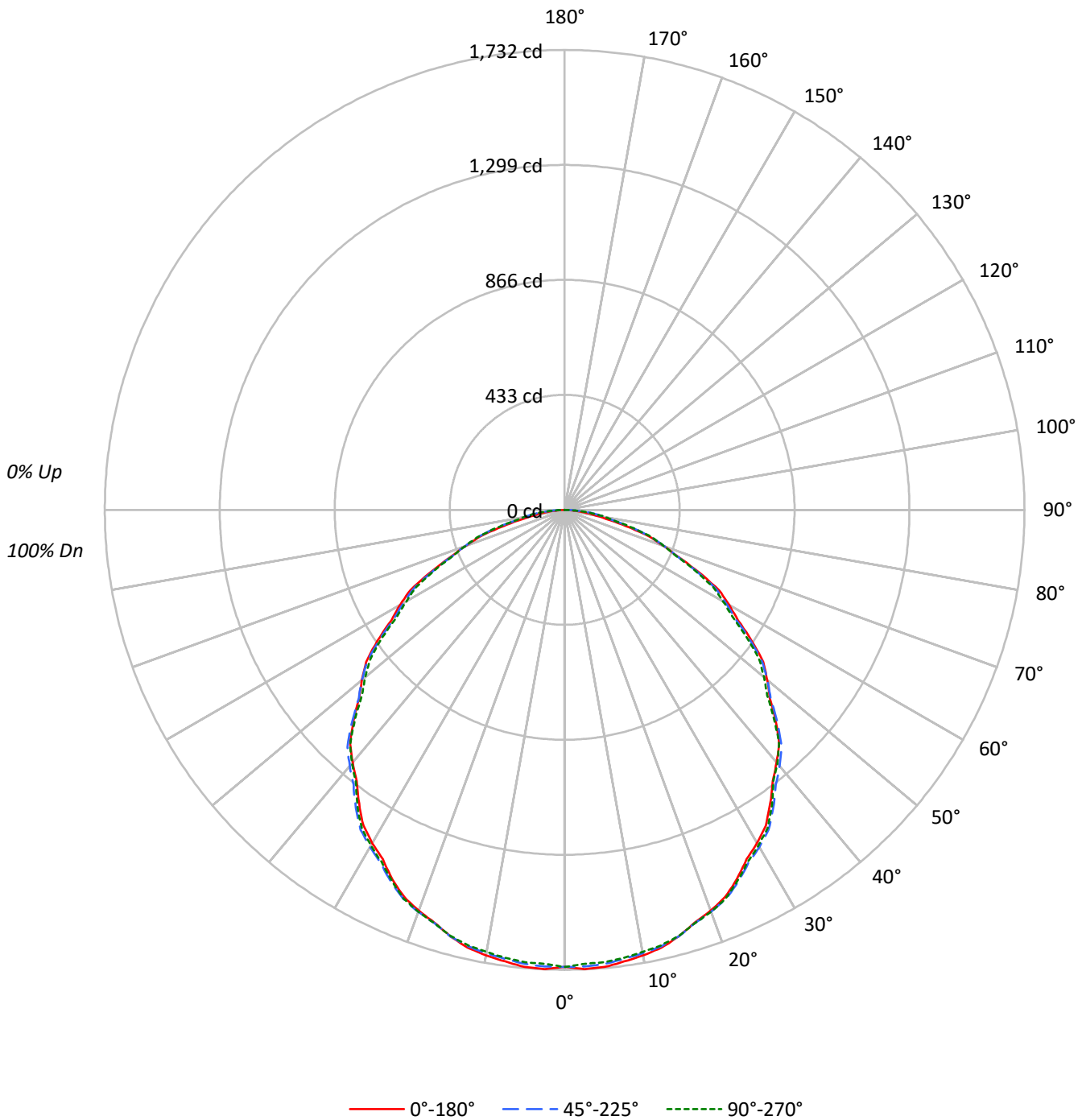
Lumens per Lamp: N/A  
Luminaire Lumens: 4698.1 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 53.4  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5208	5246	5230
30°	5145	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4852
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4060	3978	3943
70°	3554	3583	3569
75°	2860	3163	3182
80°	2033	2681	2710
85°	1239	2251	2251



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.9	3.5
10°-20°	467.5	10.0
20°-30°	708.0	15.1
30°-40°	848.8	18.1
40°-50°	865.5	18.4
50°-60°	755.5	16.1
60°-70°	540.9	11.5
70°-80°	278.6	5.9
80°-90°	70.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1338.4	28.5
0°-40°	2187.2	46.6
0°-60°	3808.2	81.1
0°-90°	4698.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4698.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1721	1721	1721	1721	1721	
5°	1728	1711	1717	1712	1710	164
15°	1662	1648	1662	1662	1661	469
25°	1535	1524	1546	1541	1541	706
35°	1350	1347	1371	1361	1361	844
45°	1125	1122	1133	1119	1116	866
55°	861	850	850	837	837	767
65°	558	545	547	542	542	552
75°	241	252	266	268	268	260
85°	35	54	64	65	64	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1721.4	1721.4	1721.4	1721.4	1721.4
2.5°	1731.6	1716.6	1721.4	1717.4	1711.2
5°	1727.8	1710.6	1716.6	1711.8	1710.2
7.5°	1715.4	1698.2	1706.1	1702.9	1701.3
10°	1703.9	1686.7	1695.9	1692.7	1691.1
12.5°	1688.6	1672.7	1683.2	1680.0	1679.6
15°	1662.4	1648.4	1662.4	1662.4	1660.8
17.5°	1629.6	1616.8	1631.8	1632.8	1631.8
20°	1606.6	1592.6	1611.4	1609.9	1611.4
22.5°	1578.6	1567.1	1587.2	1583.1	1584.7
25°	1534.9	1524.0	1546.1	1541.3	1541.3
27.5°	1483.3	1475.5	1499.5	1494.4	1494.4
30°	1448.9	1441.1	1466.4	1460.0	1460.0
32.5°	1410.6	1405.3	1429.4	1421.8	1421.8
35°	1350.0	1346.9	1370.7	1361.2	1361.2
37.5°	1287.5	1284.7	1306.4	1294.8	1291.1
40°	1241.6	1240.1	1259.2	1246.4	1246.4
42.5°	1195.7	1194.2	1210.7	1195.4	1195.4
45°	1125.3	1122.2	1133.3	1118.8	1115.7
47.5°	1048.5	1045.3	1052.3	1036.6	1035.1
50°	996.2	993.1	996.2	981.8	980.2
52.5°	942.6	937.0	937.5	923.2	922.9
55°	860.7	849.8	849.5	836.8	836.8
57.5°	774.0	759.7	760.9	750.1	748.5
60°	714.1	698.5	699.7	690.1	688.6
62.5°	655.4	637.3	641.1	630.2	629.9
65°	557.9	545.4	546.7	541.9	541.9
67.5°	464.1	452.6	461.0	457.1	456.8
70°	395.3	387.5	398.5	398.4	396.9
72.5°	331.5	331.2	344.9	344.9	345.9
75°	240.7	251.6	266.2	267.8	267.8
77.5°	160.7	180.0	196.0	196.7	196.4
80°	114.8	136.6	151.4	154.6	153.0
82.5°	77.8	100.8	113.2	116.3	114.8
85°	35.1	53.8	63.8	65.3	63.8
87.5°	10.2	21.4	25.5	25.4	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)