

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: P562809

Luminaire Tested: **SQ4-PC3-0U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562809  
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-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

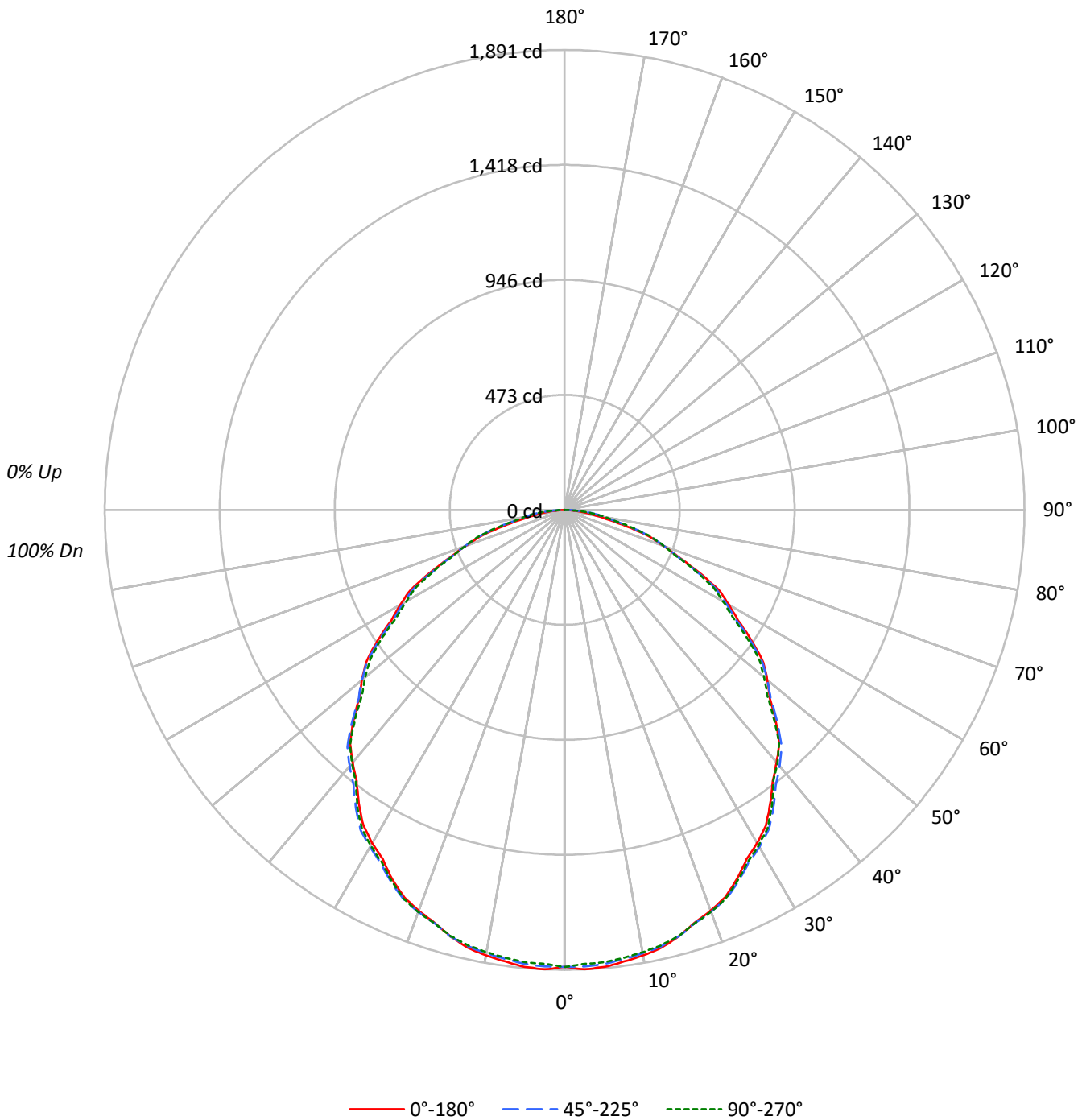
Lumens per Lamp: N/A  
Luminaire Lumens: 5129.8 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44				44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

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

	0°	45°	90°
0°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5767
15°	5779	5779	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5204	5204	5121
55°	5039	4974	4899
60°	4796	4699	4624
65°	4432	4344	4306
70°	3881	3912	3897
75°	3123	3453	3474
80°	2219	2928	2959
85°	1351	2456	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	3.5
10°-20°	510.5	10.0
20°-30°	773.1	15.1
30°-40°	926.8	18.1
40°-50°	945.0	18.4
50°-60°	824.9	16.1
60°-70°	590.6	11.5
70°-80°	304.2	5.9
80°-90°	76.9	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°	1461.4	28.5
0°-40°	2388.2	46.6
0°-60°	4158.2	81.1
0°-90°	5129.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5129.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1887	1868	1874	1869	1867	179
15°	1815	1800	1815	1815	1814	512
25°	1676	1664	1688	1683	1683	771
35°	1474	1471	1497	1486	1486	922
45°	1229	1225	1237	1222	1218	946
55°	940	928	928	914	914	838
65°	609	596	597	592	592	602
75°	263	275	291	292	292	284
85°	38	59	70	71	70	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1879.6	1879.6	1879.6	1879.6	1879.6
2.5°	1890.8	1874.4	1879.6	1875.3	1868.5
5°	1886.6	1867.9	1874.4	1869.1	1867.4
7.5°	1873.0	1854.3	1862.9	1859.4	1857.7
10°	1860.5	1841.8	1851.8	1848.3	1846.6
12.5°	1843.8	1826.4	1837.9	1834.4	1834.0
15°	1815.2	1799.9	1815.2	1815.2	1813.5
17.5°	1779.4	1765.4	1781.8	1782.8	1781.8
20°	1754.3	1739.0	1759.5	1757.8	1759.5
22.5°	1723.7	1711.1	1733.1	1728.6	1730.3
25°	1676.0	1664.1	1688.2	1683.0	1683.0
27.5°	1619.6	1611.1	1637.4	1631.8	1631.8
30°	1582.0	1573.5	1601.2	1594.2	1594.2
32.5°	1540.2	1534.5	1560.8	1552.4	1552.4
35°	1474.1	1470.7	1496.7	1486.3	1486.3
37.5°	1405.9	1402.8	1426.4	1413.8	1409.7
40°	1355.8	1354.1	1374.9	1361.0	1361.0
42.5°	1305.6	1303.9	1322.0	1305.3	1305.3
45°	1228.7	1225.3	1237.4	1221.7	1218.3
47.5°	1144.8	1141.4	1149.0	1131.9	1130.2
50°	1087.7	1084.3	1087.7	1072.0	1070.3
52.5°	1029.3	1023.1	1023.7	1008.0	1007.7
55°	939.8	927.9	927.6	913.7	913.7
57.5°	845.1	829.5	830.9	819.0	817.3
60°	779.7	762.7	764.0	753.6	751.8
62.5°	715.6	695.9	700.0	688.1	687.8
65°	609.1	595.5	597.0	591.7	591.7
67.5°	506.8	494.2	503.3	499.1	498.8
70°	431.6	423.1	435.1	435.1	433.4
72.5°	362.0	361.7	376.6	376.6	377.7
75°	262.8	274.7	290.6	292.4	292.4
77.5°	175.4	196.5	214.1	214.8	214.4
80°	125.3	149.1	165.3	168.8	167.1
82.5°	84.9	110.1	123.6	127.0	125.3
85°	38.3	58.7	69.6	71.3	69.6
87.5°	11.1	23.4	27.8	27.8	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)