

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: P562605

Luminaire Tested: **SQ4-PC3-050U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562605  
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-050D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

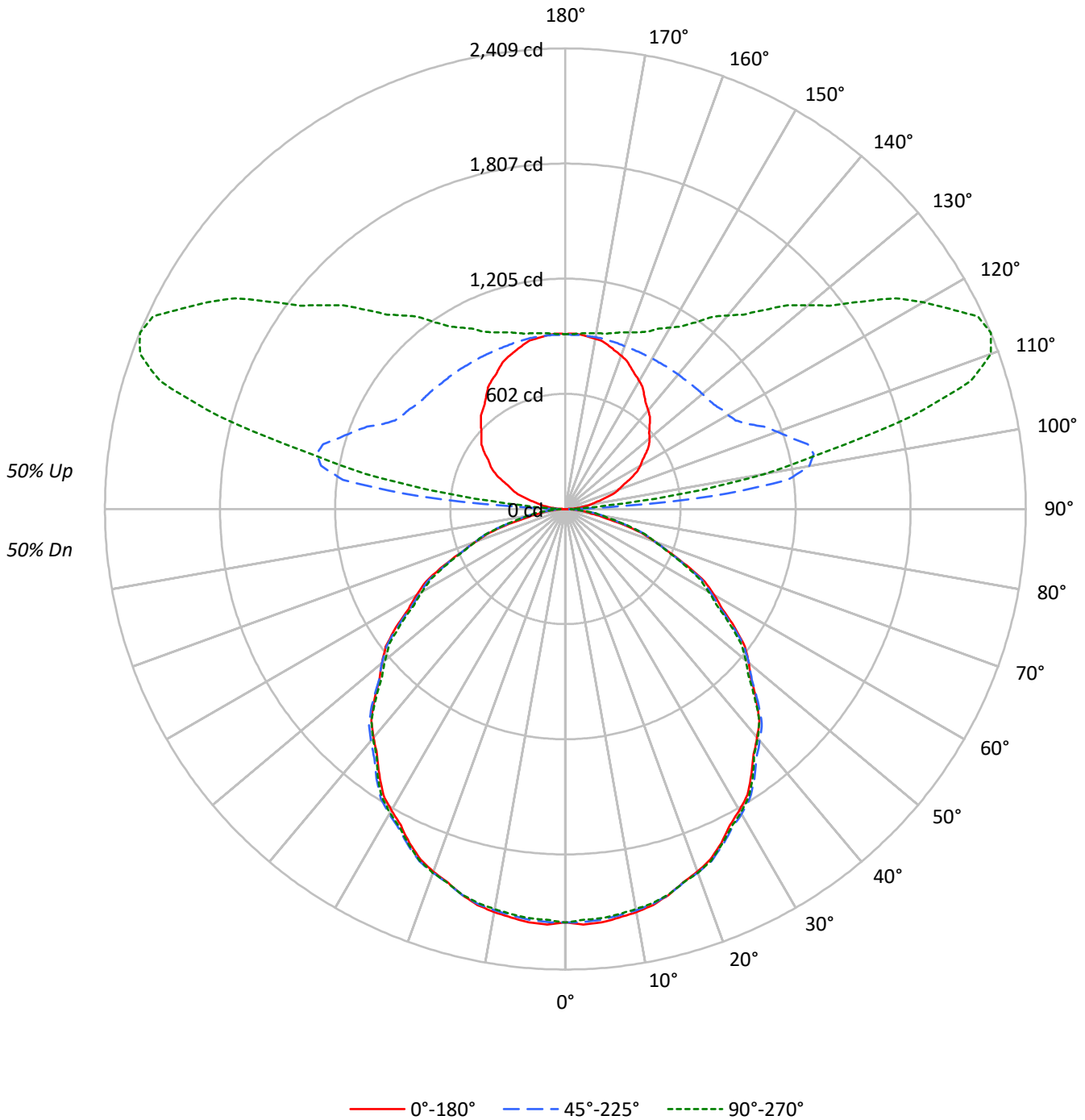
Lumens per Lamp: N/A  
Luminaire Lumens: 11883.2 lumens  
Efficiency: N/A  
Efficacy: 149.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 79.6  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	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	22	19	22	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°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6651	6651	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6515
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5799	5724	5638
60°	5519	5408	5322
65°	5101	4999	4956
70°	4466	4502	4484
75°	3594	3975	3998
80°	2554	3370	3406
85°	1556	2826	2826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.7	1.7
10°-20°	587.5	4.9
20°-30°	889.7	7.5
30°-40°	1066.6	9.0
40°-50°	1087.6	9.2
50°-60°	949.4	8.0
60°-70°	679.7	5.7
70°-80°	350.1	2.9
80°-90°	92.0	0.8
90°-100°	439.4	3.7
100°-110°	1193.5	10.0
110°-120°	1227.1	10.3
120°-130°	981.1	8.3
130°-140°	770.9	6.5
140°-150°	591.1	5.0
150°-160°	425.1	3.6
160°-170°	260.0	2.2
170°-180°	87.6	0.7
0°-30°	1681.9	14.2
0°-40°	2748.6	23.1
0°-60°	4785.6	40.3
0°-90°	5907.4	49.7
90°-120°	2860.0	24.1
90°-150°	5203.1	43.8
90°-180°	5976.0	50.3
0°-180°	11883.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2171	2150	2157	2151	2149	206
15°	2089	2072	2089	2089	2087	589
25°	1929	1915	1943	1937	1937	888
35°	1696	1693	1723	1711	1711	1061
45°	1414	1410	1424	1406	1402	1089
55°	1082	1068	1068	1052	1052	964
65°	701	685	687	681	681	693
75°	302	316	334	336	336	327
85°	44	68	80	82	80	60
90°	3	12	21	26	26	6
95°	65	240	765	333	224	69
105°	212	330	1312	1998	1880	225
115°	377	457	1051	2090	2381	372
125°	518	590	950	1602	1889	462
135°	624	693	924	1304	1471	482
145°	721	773	912	1108	1192	453
155°	815	844	906	995	1024	376
165°	883	894	909	948	950	249
175°	915	918	912	924	921	87
180°	915	915	915	915	915	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2163.2	2163.2	2163.2	2163.2	2163.2
2.5°	2176.1	2157.3	2163.2	2158.3	2150.4
5°	2171.2	2149.7	2157.2	2151.2	2149.2
7.5°	2155.6	2134.1	2144.0	2140.0	2138.0
10°	2141.2	2119.7	2131.2	2127.1	2125.2
12.5°	2122.0	2102.0	2115.2	2111.2	2110.8
15°	2089.1	2071.5	2089.1	2089.1	2087.1
17.5°	2047.9	2031.8	2050.7	2051.8	2050.7
20°	2019.0	2001.4	2025.0	2023.1	2025.0
22.5°	1983.8	1969.3	1994.6	1989.4	1991.4
25°	1928.9	1915.2	1942.9	1936.9	1936.9
27.5°	1864.0	1854.2	1884.4	1878.0	1878.0
30°	1820.7	1810.9	1842.8	1834.7	1834.7
32.5°	1772.7	1766.0	1796.3	1786.7	1786.7
35°	1696.5	1692.6	1722.6	1710.6	1710.6
37.5°	1618.0	1614.5	1641.7	1627.1	1622.4
40°	1560.3	1558.4	1582.4	1566.3	1566.3
42.5°	1502.6	1500.7	1521.5	1502.2	1502.2
45°	1414.1	1410.2	1424.1	1406.0	1402.1
47.5°	1317.6	1313.7	1322.4	1302.7	1300.7
50°	1251.9	1248.0	1251.9	1233.8	1231.8
52.5°	1184.6	1177.5	1178.2	1160.1	1159.7
55°	1081.6	1067.9	1067.6	1051.6	1051.6
57.5°	972.7	954.6	956.2	942.6	940.6
60°	897.3	877.8	879.3	867.3	865.3
62.5°	823.6	800.9	805.6	792.0	791.6
65°	701.0	685.4	687.0	681.0	681.0
67.5°	583.3	568.8	579.3	574.5	574.1
70°	496.7	487.0	500.7	500.7	498.7
72.5°	416.6	416.2	433.4	433.5	434.7
75°	302.5	316.2	334.5	336.5	336.5
77.5°	201.9	226.2	246.4	247.2	246.8
80°	144.2	171.6	190.3	194.2	192.3
82.5°	97.7	126.7	142.2	146.2	144.2
85°	44.1	67.6	80.1	82.1	80.1
87.5°	13.4	29.2	36.2	37.3	34.1
90°	2.9	11.6	20.6	26.5	26.5
92.5°	26.5	120.3	208.9	89.7	75.9
95°	64.7	240.3	765.1	333.0	223.7
97.5°	107.1	265.4	1173.0	912.6	641.0
100°	135.4	282.1	1297.8	1315.6	1062.4
102.5°	163.6	298.9	1330.8	1627.0	1403.7
105°	211.9	329.9	1312.5	1998.4	1880.5
107.5°	261.9	366.1	1236.6	2190.2	2223.0
110°	297.2	392.2	1180.1	2228.0	2369.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	327.8	418.2	1123.6	2196.7	2409.0
115°	376.7	457.3	1050.6	2090.1	2380.8
117.5°	422.6	499.7	1004.1	1939.1	2266.6
120°	453.2	528.0	982.9	1837.8	2163.0
122.5°	479.1	553.9	968.8	1736.3	2050.0
125°	517.9	589.9	950.5	1601.6	1889.3
127.5°	552.7	624.0	940.5	1499.4	1746.3
130°	573.9	642.9	935.8	1435.3	1656.8
132.5°	595.0	664.1	931.1	1380.5	1576.8
135°	623.9	692.9	924.1	1304.5	1471.4
137.5°	655.1	717.8	920.5	1237.4	1377.8
140°	673.9	734.3	918.2	1194.7	1321.3
142.5°	692.7	748.6	915.8	1161.3	1267.2
145°	721.0	772.8	912.3	1108.4	1191.8
147.5°	752.8	797.1	909.3	1066.8	1132.4
150°	774.0	811.4	909.3	1042.9	1094.7
152.5°	790.4	823.2	907.0	1021.5	1064.1
155°	815.2	843.9	906.4	995.3	1024.1
157.5°	839.3	861.7	906.4	977.5	999.4
160°	853.4	873.6	906.4	965.6	982.9
162.5°	867.5	883.1	908.7	956.1	968.8
165°	882.9	894.4	909.3	947.7	950.5
167.5°	898.7	904.5	912.3	937.6	939.9
170°	903.5	909.2	912.3	932.9	932.9
172.5°	908.2	911.6	912.3	928.2	928.2
175°	915.2	918.1	912.3	924.0	921.1
177.5°	917.6	917.6	910.5	919.8	915.2
180°	915.2	915.2	915.2	915.2	915.2

(END OF REPORT)