

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: P562959

Luminaire Tested: **SQ4-PC3-100U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562959
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

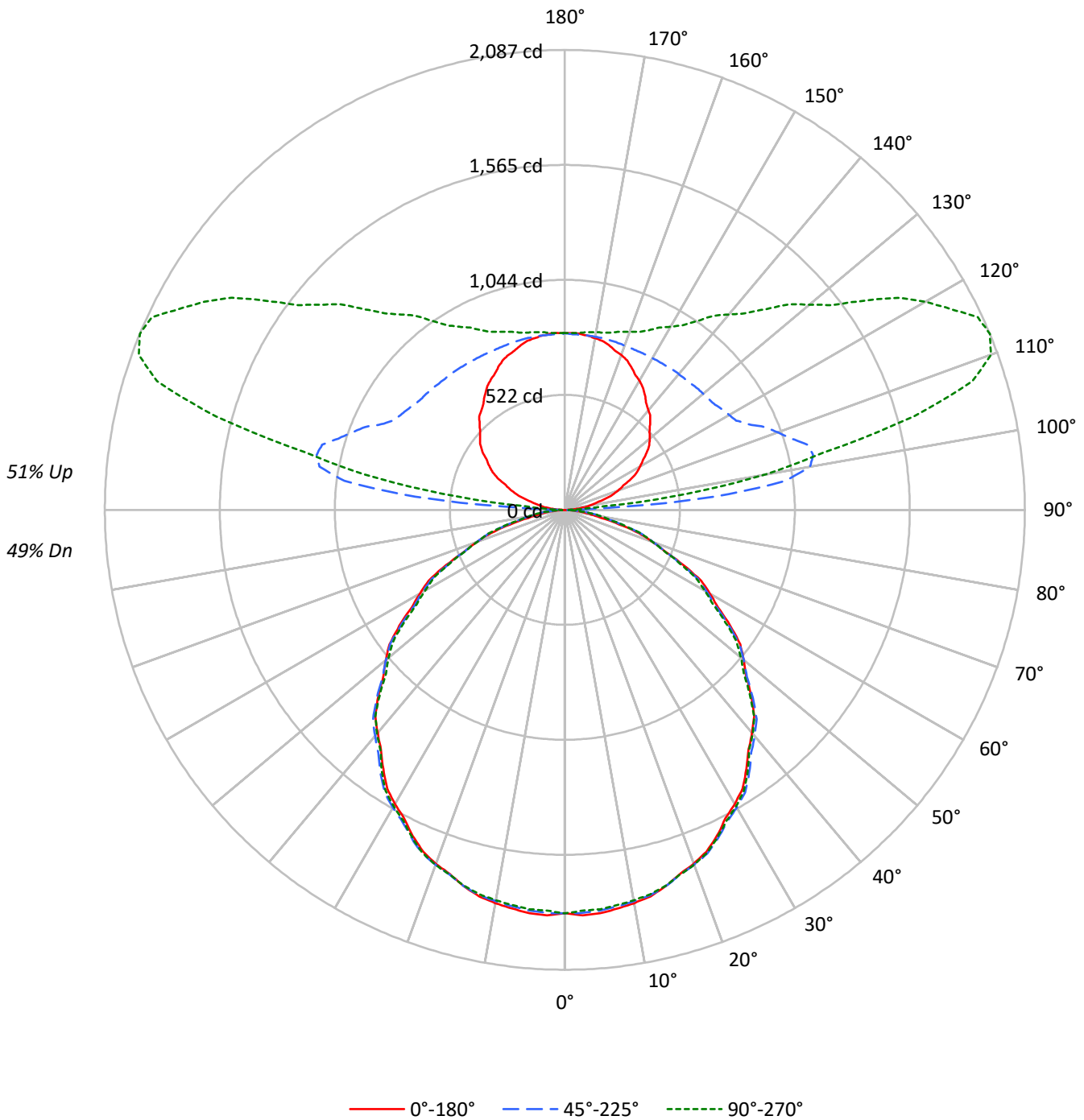
Lumens per Lamp: N/A
Luminaire Lumens: 10207.2 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	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	57	47	40	34	40	34	30	34	29	26	28	24	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	38	32	27	33	28	24	28	24	20	23	20	17	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°	11263	11263	11263
5°	11348	11274	11233
10°	11320	11267	11235
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10948	10873
40°	10605	10754	10646
45°	10412	10486	10323
50°	10140	10140	9978
55°	9819	9691	9545
60°	9344	9156	9011
65°	8636	8465	8390
70°	7562	7623	7593
75°	6084	6728	6768
80°	4325	5706	5767
85°	2632	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	1.7
10°-20°	497.3	4.9
20°-30°	753.1	7.4
30°-40°	902.9	8.8
40°-50°	920.6	9.0
50°-60°	803.7	7.9
60°-70°	575.4	5.6
70°-80°	296.3	2.9
80°-90°	76.6	0.8
90°-100°	375.4	3.7
100°-110°	1036.3	10.2
110°-120°	1068.7	10.5
120°-130°	858.8	8.4
130°-140°	674.9	6.6
140°-150°	517.7	5.1
150°-160°	372.0	3.6
160°-170°	227.5	2.2
170°-180°	76.7	0.8
0°-30°	1423.7	13.9
0°-40°	2326.6	22.8
0°-60°	4050.9	39.7
0°-90°	4999.2	49.0
90°-120°	2480.4	24.3
90°-150°	4531.8	44.4
90°-180°	5208.0	51.0
0°-180°	10207.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1838	1820	1826	1821	1819	174
15°	1768	1754	1768	1768	1767	499
25°	1633	1621	1645	1640	1640	751
35°	1436	1433	1458	1448	1448	898
45°	1197	1194	1206	1190	1187	921
55°	916	904	904	890	890	816
65°	593	580	582	576	576	587
75°	256	268	283	285	285	277
85°	37	57	68	70	68	51
90°	3	5	10	12	13	5
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1842.0	1826.1	1831.1	1826.9	1820.3
5°	1837.9	1819.7	1826.0	1820.9	1819.3
7.5°	1824.7	1806.5	1814.9	1811.4	1809.8
10°	1812.5	1794.2	1804.0	1800.6	1798.9
12.5°	1796.2	1779.3	1790.4	1787.0	1786.7
15°	1768.4	1753.5	1768.4	1768.4	1766.7
17.5°	1733.5	1719.9	1735.8	1736.8	1735.8
20°	1709.1	1694.1	1714.1	1712.5	1714.1
22.5°	1679.2	1667.0	1688.4	1684.0	1685.7
25°	1632.8	1621.2	1644.6	1639.5	1639.5
27.5°	1577.8	1569.5	1595.1	1589.7	1589.7
30°	1541.2	1532.9	1559.9	1553.1	1553.1
32.5°	1500.5	1494.9	1520.5	1512.4	1512.4
35°	1436.1	1432.8	1458.1	1448.0	1448.0
37.5°	1369.6	1366.6	1389.6	1377.3	1373.4
40°	1320.8	1319.1	1339.4	1325.9	1325.9
42.5°	1272.0	1270.3	1287.9	1271.6	1271.6
45°	1197.0	1193.7	1205.5	1190.2	1186.8
47.5°	1115.3	1112.0	1119.4	1102.7	1101.1
50°	1059.7	1056.4	1059.7	1044.4	1042.7
52.5°	1002.7	996.7	997.3	982.0	981.7
55°	915.6	904.0	903.7	890.1	890.1
57.5°	823.3	808.1	809.4	797.9	796.2
60°	759.6	743.0	744.3	734.1	732.5
62.5°	697.2	678.0	681.9	670.4	670.1
65°	593.4	580.2	581.6	576.5	576.5
67.5°	493.7	481.5	490.3	486.3	485.9
70°	420.5	412.2	423.9	423.8	422.2
72.5°	352.7	352.3	366.9	366.9	367.9
75°	256.0	267.6	283.1	284.8	284.8
77.5°	170.9	191.5	208.5	209.2	208.9
80°	122.1	145.3	161.1	164.4	162.8
82.5°	82.7	107.3	120.4	123.7	122.1
85°	37.3	57.2	67.8	69.5	67.8
87.5°	11.4	23.8	29.2	29.4	27.0
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)