

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: P561715

Luminaire Tested: **SQ4-PC3-125U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561715
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-125U-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

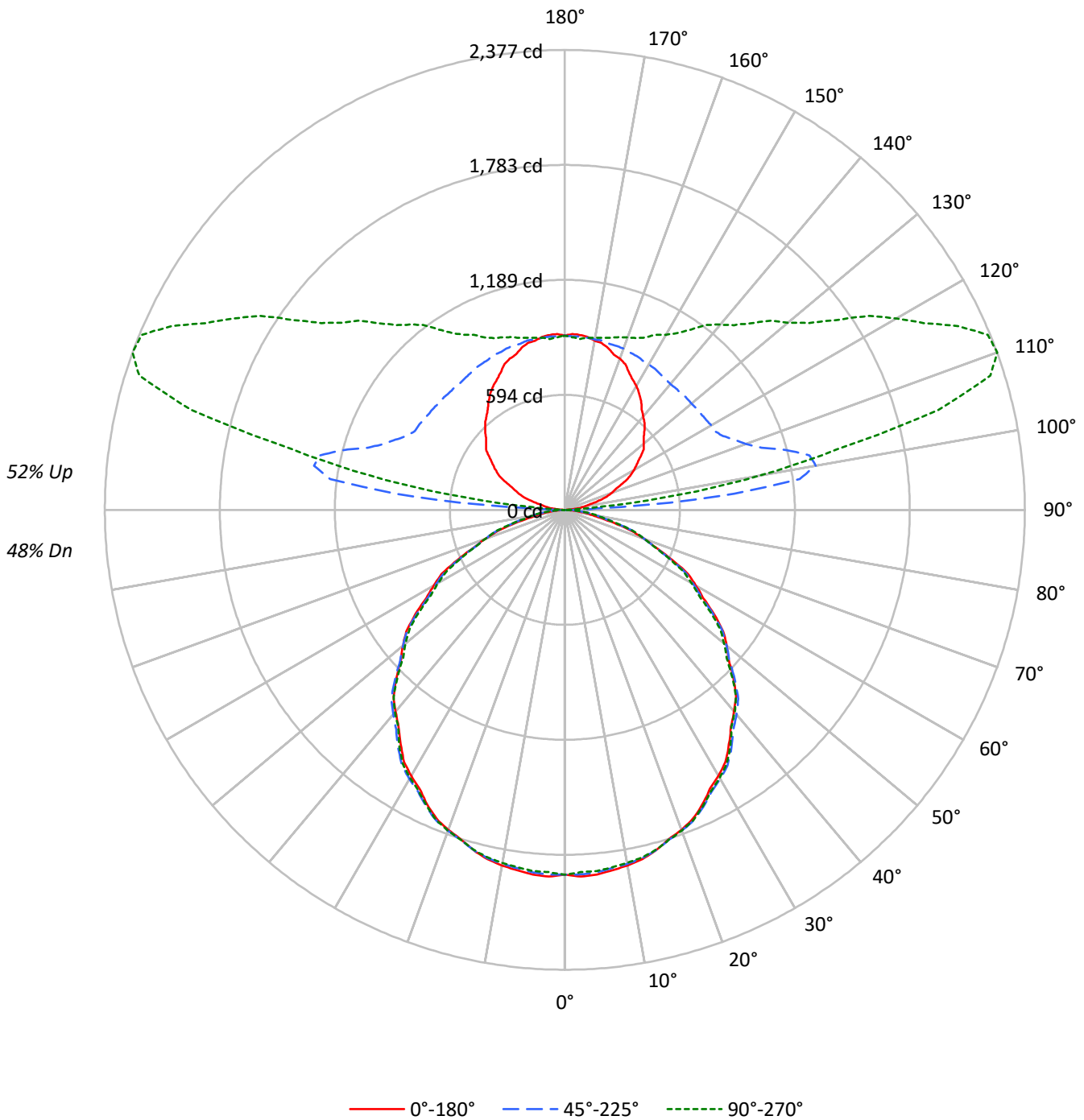
Lumens per Lamp: N/A
Luminaire Lumens: 10738.9 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.3
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	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17399	17399	17399
5°	17529	17416	17351
10°	17487	17405	17356
15°	17395	17395	17378
20°	17280	17332	17332
25°	17118	17242	17189
30°	16909	17114	17039
35°	16657	16913	16796
40°	16382	16613	16445
45°	16084	16199	15948
50°	15664	15664	15413
55°	15167	14971	14745
60°	14433	14144	13919
65°	13341	13075	12961
70°	11680	11775	11729
75°	9400	10395	10455
80°	6679	8815	8905
85°	4065	7389	7389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	1.7
10°-20°	512.2	4.8
20°-30°	775.6	7.2
30°-40°	929.8	8.7
40°-50°	948.1	8.8
50°-60°	827.6	7.7
60°-70°	592.5	5.5
70°-80°	305.2	2.8
80°-90°	77.2	0.7
90°-100°	410.2	3.8
100°-110°	1167.3	10.9
110°-120°	1118.4	10.4
120°-130°	885.2	8.2
130°-140°	710.5	6.6
140°-150°	556.2	5.2
150°-160°	407.0	3.8
160°-170°	252.1	2.3
170°-180°	85.5	0.8
0°-30°	1466.2	13.7
0°-40°	2396.0	22.3
0°-60°	4171.8	38.8
0°-90°	5146.6	47.9
90°-120°	2695.9	25.1
90°-150°	4847.7	45.1
90°-180°	5592.0	52.1
0°-180°	10738.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1893	1874	1880	1875	1874	180
15°	1821	1806	1821	1821	1819	513
25°	1682	1670	1694	1688	1688	774
35°	1479	1476	1502	1491	1491	925
45°	1233	1229	1242	1226	1222	949
55°	943	931	931	917	917	841
65°	611	598	599	594	594	604
75°	264	276	292	293	293	285
85°	38	59	70	72	70	52
90°	0	0	0	0	0	3
95°	44	177	794	275	169	51
105°	181	275	1190	2101	1997	192
115°	337	408	902	1911	2244	332
125°	476	528	861	1429	1708	426
135°	582	630	851	1207	1364	449
145°	686	722	858	1044	1138	429
155°	784	802	878	944	982	362
165°	866	869	888	907	921	244
175°	907	902	899	893	887	86
180°	900	900	900	900	900	



TEST NUMBER: P561715

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1896.9	1880.5	1885.8	1881.4	1874.6
5°	1892.7	1874.0	1880.5	1875.2	1873.5
7.5°	1879.1	1860.3	1869.0	1865.5	1863.8
10°	1866.6	1847.8	1857.8	1854.3	1852.6
12.5°	1849.8	1832.4	1843.9	1840.4	1840.0
15°	1821.2	1805.8	1821.2	1821.1	1819.4
17.5°	1785.2	1771.2	1787.6	1788.7	1787.6
20°	1760.0	1744.7	1765.3	1763.6	1765.3
22.5°	1729.3	1716.7	1738.7	1734.2	1736.0
25°	1681.5	1669.5	1693.7	1688.5	1688.5
27.5°	1624.9	1616.4	1642.7	1637.1	1637.1
30°	1587.2	1578.6	1606.4	1599.4	1599.4
32.5°	1545.3	1539.5	1565.9	1557.5	1557.5
35°	1478.9	1475.5	1501.6	1491.2	1491.2
37.5°	1410.5	1407.4	1431.1	1418.4	1414.3
40°	1360.2	1358.5	1379.4	1365.4	1365.4
42.5°	1309.9	1308.2	1326.3	1309.6	1309.6
45°	1232.7	1229.3	1241.5	1225.7	1222.3
47.5°	1148.6	1145.2	1152.8	1135.6	1133.9
50°	1091.3	1087.9	1091.3	1075.5	1073.8
52.5°	1032.6	1026.5	1027.0	1011.3	1011.0
55°	942.9	930.9	930.7	916.7	916.7
57.5°	847.9	832.2	833.6	821.7	820.0
60°	782.2	765.2	766.5	756.0	754.3
62.5°	718.0	698.2	702.3	690.4	690.0
65°	611.1	597.5	598.9	593.7	593.7
67.5°	508.5	495.8	505.0	500.8	500.4
70°	433.0	424.5	436.5	436.5	434.8
72.5°	363.2	362.8	377.9	377.9	378.9
75°	263.7	275.6	291.6	293.3	293.3
77.5°	176.0	197.2	214.8	215.5	215.1
80°	125.7	149.6	165.9	169.3	167.6
82.5°	85.2	110.5	124.0	127.4	125.7
85°	38.4	58.9	69.8	71.6	69.8
87.5°	11.2	23.5	27.9	27.9	25.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	72.6	168.4	49.0	37.0
95°	44.5	176.7	794.2	274.9	169.4
97.5°	81.8	207.0	1223.1	875.2	599.7
100°	107.8	225.0	1316.2	1333.2	1026.9
102.5°	136.6	244.4	1295.7	1706.5	1439.1
105°	181.4	275.1	1189.5	2101.2	1997.4
107.5°	227.0	311.0	1065.6	2212.4	2304.8
110°	258.4	337.1	994.4	2169.9	2377.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.6	363.2	946.5	2069.2	2365.0
115°	337.2	407.5	902.0	1910.8	2243.9
117.5°	380.0	445.9	875.6	1737.7	2090.5
120°	414.2	469.4	872.9	1638.8	1976.9
122.5°	441.6	496.8	866.1	1552.0	1866.0
125°	475.8	527.7	860.9	1428.7	1708.1
127.5°	513.1	561.7	858.2	1355.0	1585.3
130°	532.3	580.8	854.1	1303.6	1504.5
132.5°	552.8	600.0	854.1	1263.6	1448.3
135°	581.9	630.5	850.7	1206.8	1364.1
137.5°	609.3	656.5	850.3	1158.7	1294.6
140°	629.9	678.4	848.9	1118.9	1249.4
142.5°	653.1	693.6	853.0	1087.1	1204.3
145°	686.3	721.5	857.5	1044.5	1138.2
147.5°	714.8	748.9	865.0	1001.4	1082.4
150°	739.4	762.8	867.8	987.2	1044.1
152.5°	758.6	783.3	870.5	967.9	1020.8
155°	783.9	802.3	878.0	943.9	982.4
157.5°	815.4	826.4	879.7	933.1	960.5
160°	831.8	840.2	886.6	924.8	948.2
162.5°	841.4	851.1	888.0	917.8	935.9
165°	866.1	869.4	888.3	907.4	920.8
167.5°	882.8	879.8	896.2	904.9	910.2
170°	888.3	886.6	893.4	895.3	902.0
172.5°	900.6	894.9	897.5	892.5	897.9
175°	907.1	902.1	898.6	893.3	886.6
177.5°	909.9	901.8	897.5	892.1	893.4
180°	900.3	900.3	900.3	900.3	900.3

(END OF REPORT)