

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: P563051

Luminaire Tested: **SQ4-PC3-125U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563051
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

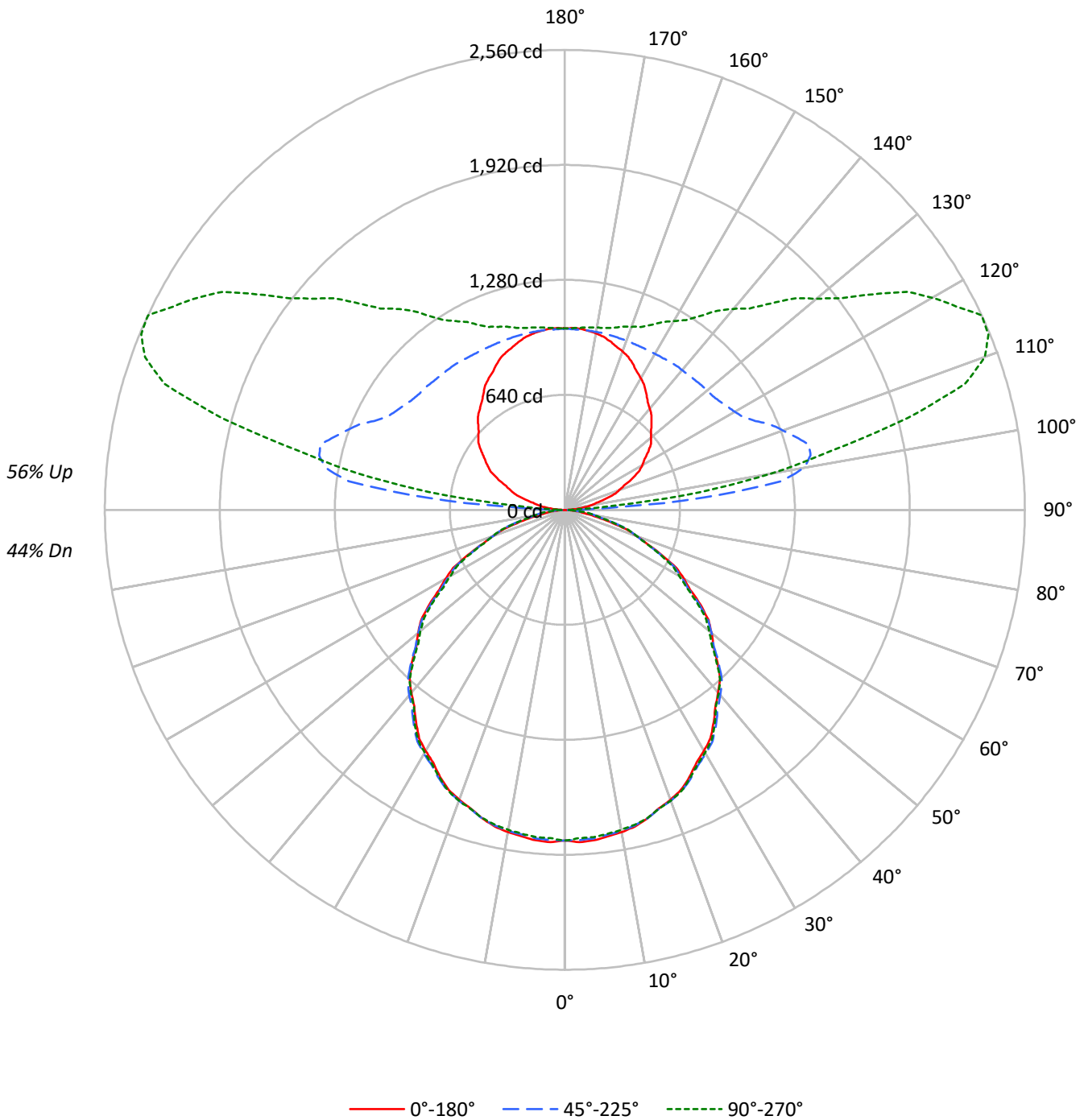
Lumens per Lamp: N/A
Luminaire Lumens: 11541.2 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 102.8
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11138	11218	11184
30°	11002	11135	11087
35°	10838	11005	10927
40°	10659	10810	10700
45°	10465	10540	10376
50°	10192	10192	10029
55°	9868	9740	9594
60°	9392	9203	9056
65°	8681	8507	8433
70°	7600	7661	7631
75°	6115	6763	6804
80°	4346	5735	5795
85°	2646	4813	4813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	1.5
10°-20°	499.9	4.3
20°-30°	757.0	6.6
30°-40°	907.5	7.9
40°-50°	925.3	8.0
50°-60°	807.8	7.0
60°-70°	578.3	5.0
70°-80°	297.9	2.6
80°-90°	77.7	0.7
90°-100°	472.2	4.1
100°-110°	1271.9	11.0
110°-120°	1334.8	11.6
120°-130°	1083.2	9.4
130°-140°	849.5	7.4
140°-150°	652.2	5.7
150°-160°	468.9	4.1
160°-170°	286.5	2.5
170°-180°	96.6	0.8
0°-30°	1431.0	12.4
0°-40°	2338.5	20.3
0°-60°	4071.6	35.3
0°-90°	5025.4	43.5
90°-120°	3078.9	26.7
90°-150°	5663.8	49.1
90°-180°	6516.0	56.5
0°-180°	11541.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1847	1829	1835	1830	1829	175
15°	1777	1762	1777	1777	1776	501
25°	1641	1629	1653	1648	1648	755
35°	1443	1440	1466	1455	1455	903
45°	1203	1200	1212	1196	1193	926
55°	920	909	908	895	895	820
65°	596	583	584	579	579	590
75°	257	269	285	286	286	278
85°	38	58	68	70	68	51
90°	3	8	15	17	17	7
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.5	1840.5	1840.5	1840.5	1840.5
2.5°	1851.4	1835.4	1840.5	1836.2	1829.6
5°	1847.3	1829.0	1835.4	1830.2	1828.6
7.5°	1834.0	1815.7	1824.1	1820.7	1819.0
10°	1821.7	1803.4	1813.2	1809.8	1808.1
12.5°	1805.4	1788.4	1799.6	1796.2	1795.8
15°	1777.4	1762.4	1777.4	1777.4	1775.7
17.5°	1742.3	1728.7	1744.7	1745.7	1744.7
20°	1717.8	1702.8	1722.9	1721.2	1722.9
22.5°	1687.8	1675.5	1697.0	1692.6	1694.3
25°	1641.1	1629.4	1653.0	1647.9	1647.9
27.5°	1585.9	1577.6	1603.3	1597.8	1597.8
30°	1549.1	1540.7	1567.8	1561.0	1561.0
32.5°	1508.2	1502.5	1528.3	1520.1	1520.1
35°	1443.4	1440.1	1465.6	1455.3	1455.3
37.5°	1376.6	1373.6	1396.7	1384.4	1380.4
40°	1327.5	1325.9	1346.3	1332.6	1332.6
42.5°	1278.5	1276.8	1294.5	1278.1	1278.1
45°	1203.1	1199.8	1211.7	1196.2	1192.9
47.5°	1121.0	1117.7	1125.1	1108.3	1106.7
50°	1065.1	1061.8	1065.1	1049.7	1048.1
52.5°	1007.8	1001.8	1002.4	987.0	986.7
55°	920.2	908.6	908.3	894.7	894.7
57.5°	827.5	812.2	813.6	801.9	800.3
60°	763.5	746.8	748.1	737.9	736.2
62.5°	700.7	681.4	685.4	673.8	673.5
65°	596.5	583.1	584.5	579.4	579.4
67.5°	496.2	483.9	492.8	488.7	488.4
70°	422.6	414.3	426.0	426.0	424.3
72.5°	354.5	354.1	368.8	368.8	369.8
75°	257.3	269.0	284.6	286.3	286.3
77.5°	171.8	192.4	209.6	210.3	210.0
80°	122.7	146.0	161.9	165.3	163.6
82.5°	83.2	107.8	121.0	124.4	122.7
85°	37.5	57.5	68.2	69.8	68.2
87.5°	11.4	24.4	30.4	30.5	27.9
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.0	395.8	273.9
97.5°	114.9	294.0	1214.0	1014.2	764.8
100°	147.9	308.8	1353.9	1416.6	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.8
105°	235.3	366.0	1406.6	2104.4	1974.9
107.5°	287.8	404.4	1346.7	2303.1	2336.5
110°	322.7	433.4	1292.2	2364.7	2486.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.3	1239.7	2351.1	2551.5
115°	415.3	508.3	1171.3	2263.3	2560.0
117.5°	466.0	553.2	1118.4	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.6	2258.1
125°	567.0	651.3	1051.8	1777.6	2091.9
127.5°	604.8	687.8	1038.9	1652.4	1933.0
130°	627.5	710.4	1033.8	1580.7	1827.1
132.5°	650.1	732.1	1028.6	1517.5	1743.8
135°	682.7	761.9	1022.2	1434.1	1623.9
137.5°	713.9	789.8	1018.8	1363.4	1519.3
140°	735.5	808.4	1015.8	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.1	1009.3	1226.1	1316.6
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.2	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.4
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.4	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.2	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.3	1005.5	1029.9	1029.9
172.5°	1003.9	1004.4	1006.5	1024.8	1024.8
175°	1010.6	1009.4	1005.5	1019.6	1017.0
177.5°	1013.4	1011.4	1006.2	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)