

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: P561716

Luminaire Tested: **SQ4-PC3-125U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561716
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

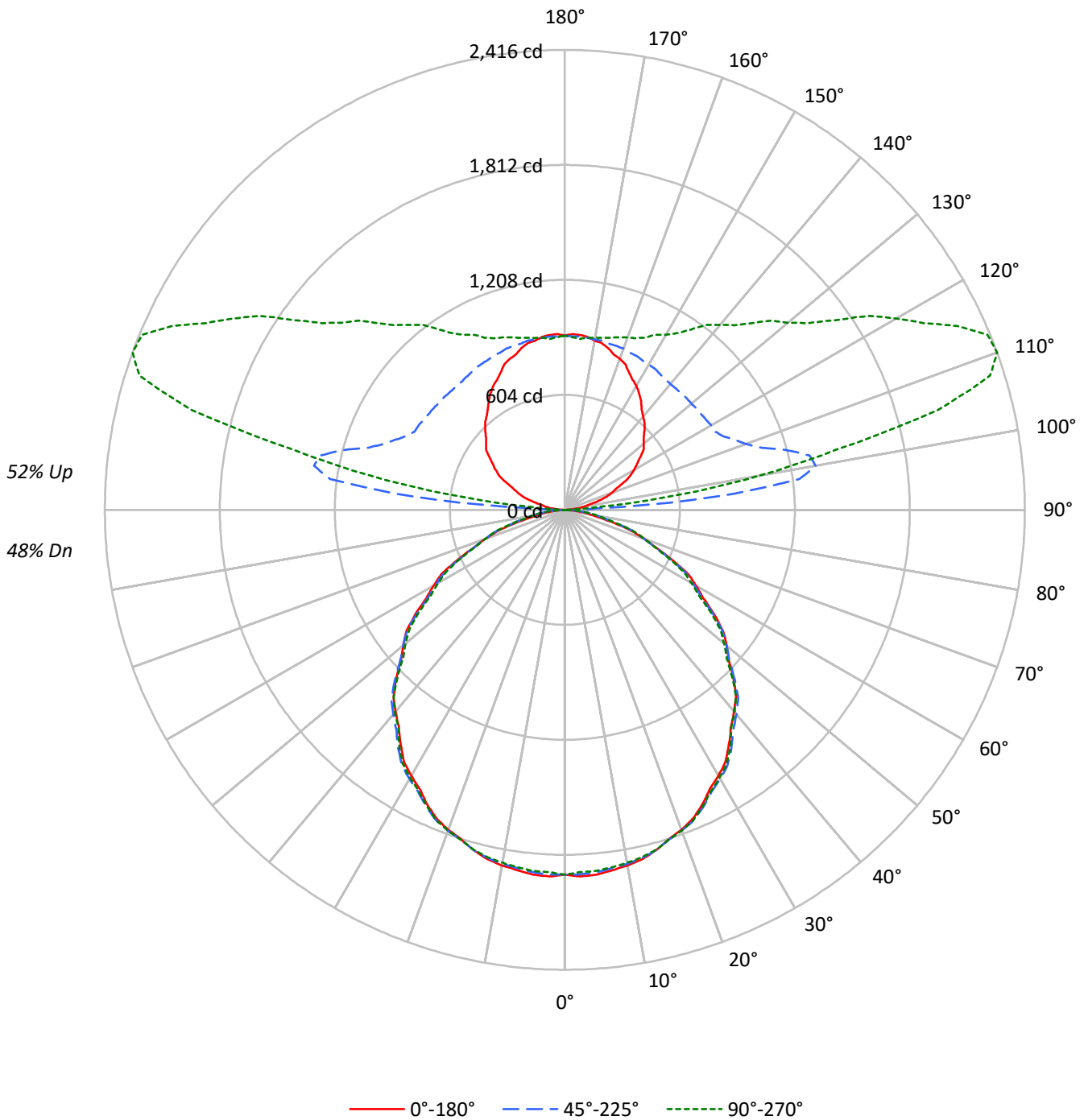
Lumens per Lamp: N/A
Luminaire Lumens: 10912.1 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.1
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°	17679	17679	17679
5°	17813	17698	17632
10°	17769	17686	17636
15°	17675	17675	17659
20°	17559	17612	17612
25°	17394	17520	17466
30°	17182	17390	17314
35°	16926	17185	17066
40°	16646	16882	16711
45°	16344	16460	16205
50°	15917	15917	15662
55°	15411	15212	14984
60°	14668	14373	14144
65°	13557	13286	13168
70°	11869	11966	11918
75°	9550	10562	10626
80°	6785	8958	9048
85°	4128	7516	7516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	1.7
10°-20°	520.4	4.8
20°-30°	788.1	7.2
30°-40°	944.8	8.7
40°-50°	963.4	8.8
50°-60°	841.0	7.7
60°-70°	602.1	5.5
70°-80°	310.1	2.8
80°-90°	78.4	0.7
90°-100°	416.8	3.8
100°-110°	1186.1	10.9
110°-120°	1136.4	10.4
120°-130°	899.4	8.2
130°-140°	721.9	6.6
140°-150°	565.2	5.2
150°-160°	413.5	3.8
160°-170°	256.2	2.3
170°-180°	86.9	0.8
0°-30°	1489.9	13.7
0°-40°	2434.7	22.3
0°-60°	4239.0	38.8
0°-90°	5229.6	47.9
90°-120°	2739.4	25.1
90°-150°	4925.9	45.1
90°-180°	5682.0	52.1
0°-180°	10912.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1923	1904	1911	1906	1904	183
15°	1850	1835	1850	1850	1849	522
25°	1709	1696	1721	1716	1716	786
35°	1503	1499	1526	1515	1515	940
45°	1253	1249	1262	1245	1242	964
55°	958	946	946	932	932	854
65°	621	607	609	603	603	614
75°	268	280	296	298	298	289
85°	39	60	71	73	71	53
90°	0	0	0	0	0	3
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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CATALOG NUMBER: SQ4-PC3-125U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1916.2	1916.2	1916.2	1916.2	1916.2
2.5°	1927.5	1910.9	1916.2	1911.8	1904.8
5°	1923.3	1904.2	1910.9	1905.5	1903.8
7.5°	1909.4	1890.4	1899.2	1895.6	1893.8
10°	1896.7	1877.6	1887.8	1884.2	1882.5
12.5°	1879.6	1861.9	1873.6	1870.0	1869.7
15°	1850.5	1834.9	1850.5	1850.5	1848.8
17.5°	1814.0	1799.8	1816.5	1817.5	1816.5
20°	1788.4	1772.8	1793.8	1792.0	1793.8
22.5°	1757.2	1744.4	1766.8	1762.2	1764.0
25°	1708.6	1696.5	1721.0	1715.7	1715.7
27.5°	1651.1	1642.4	1669.2	1663.5	1663.5
30°	1612.8	1604.1	1632.3	1625.2	1625.2
32.5°	1570.2	1564.3	1591.1	1582.6	1582.6
35°	1502.8	1499.3	1525.8	1515.2	1515.2
37.5°	1433.2	1430.1	1454.2	1441.3	1437.1
40°	1382.1	1380.4	1401.7	1387.5	1387.5
42.5°	1331.0	1329.3	1347.7	1330.7	1330.7
45°	1252.6	1249.1	1261.5	1245.4	1242.0
47.5°	1167.1	1163.6	1171.4	1153.9	1152.2
50°	1108.9	1105.4	1108.9	1092.9	1091.2
52.5°	1049.3	1043.0	1043.6	1027.6	1027.3
55°	958.1	945.9	945.7	931.5	931.5
57.5°	861.6	845.6	847.0	834.9	833.2
60°	794.9	777.5	778.9	768.2	766.5
62.5°	729.6	709.4	713.6	701.5	701.2
65°	621.0	607.1	608.6	603.2	603.2
67.5°	516.7	503.8	513.1	508.8	508.5
70°	440.0	431.3	443.6	443.5	441.8
72.5°	369.0	368.7	383.9	384.0	385.0
75°	267.9	280.1	296.3	298.1	298.1
77.5°	178.8	200.4	218.2	218.9	218.6
80°	127.7	152.0	168.6	172.1	170.3
82.5°	86.6	112.3	126.0	129.5	127.7
85°	39.0	59.9	71.0	72.7	71.0
87.5°	11.4	23.8	28.4	28.3	25.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)