

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: P561768

Luminaire Tested: **SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561768
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-PC3-150U-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 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

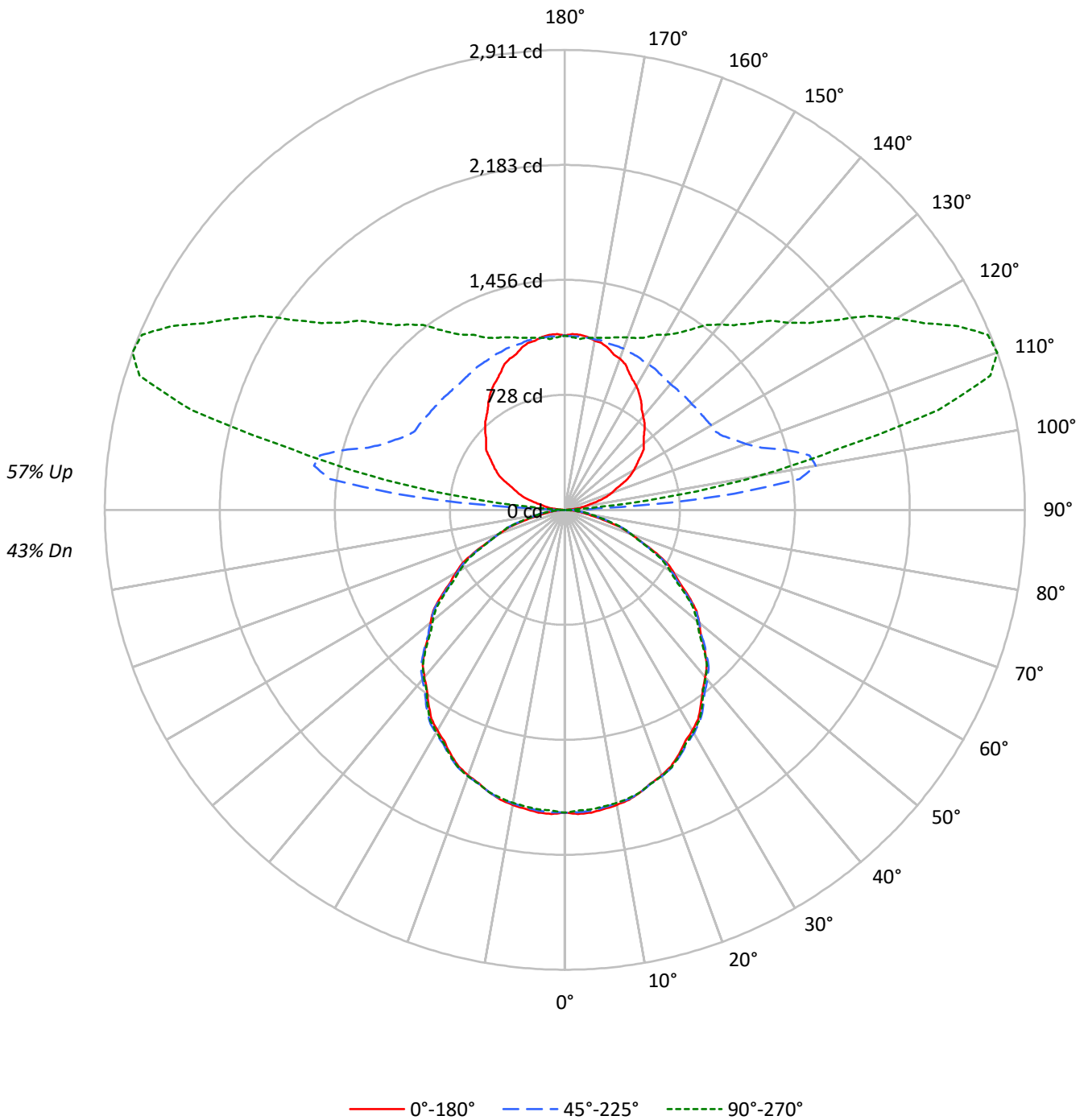
Lumens per Lamp: N/A
Luminaire Lumens: 12077.9 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 106.8
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	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	68	65	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	45	44	41	38	34	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	38	33	29	32	27	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	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°	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	1.5
10°-20°	520.4	4.3
20°-30°	788.1	6.5
30°-40°	944.8	7.8
40°-50°	963.4	8.0
50°-60°	841.0	7.0
60°-70°	602.1	5.0
70°-80°	310.1	2.6
80°-90°	78.4	0.6
90°-100°	502.4	4.2
100°-110°	1429.4	11.8
110°-120°	1369.6	11.3
120°-130°	1083.9	9.0
130°-140°	870.0	7.2
140°-150°	681.1	5.6
150°-160°	498.4	4.1
160°-170°	308.7	2.6
170°-180°	104.8	0.9
0°-30°	1489.9	12.3
0°-40°	2434.7	20.2
0°-60°	4239.0	35.1
0°-90°	5229.6	43.3
90°-120°	3301.4	27.3
90°-150°	5936.5	49.2
90°-180°	6848.0	56.7
0°-180°	12077.9	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	4
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	



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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°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)