

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: P564952

Luminaire Tested: **SQ4-PW1-100U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564952
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-100U-075D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

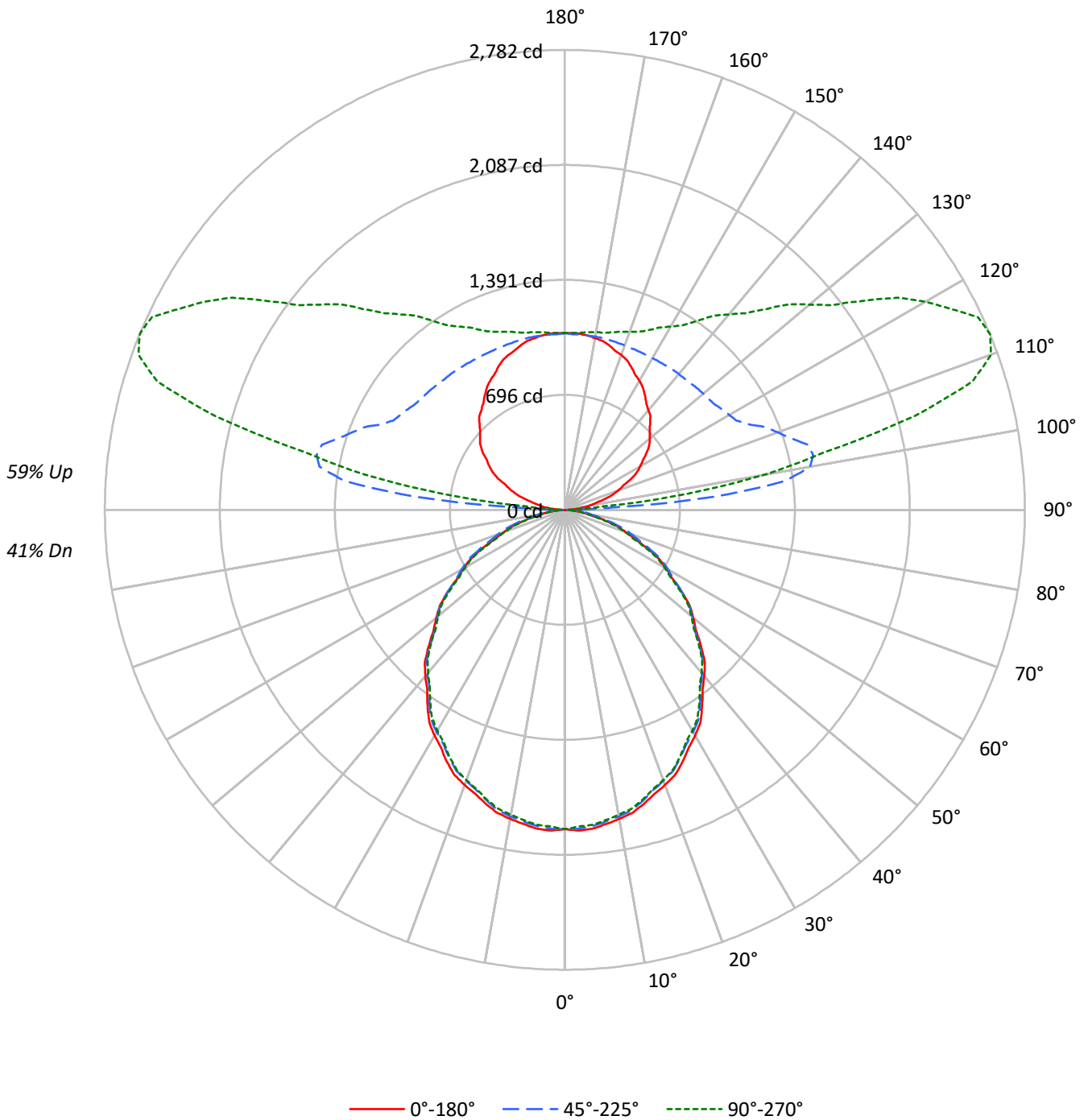
Lumens per Lamp: N/A
Luminaire Lumens: 11859.5 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 103.9
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	35	30
3	80	70	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	19	17	15
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	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	26	21	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8561	8544
25°	8574	8418	8392
30°	8392	8266	8211
35°	8154	8039	7991
40°	7900	7777	7746
45°	7593	7492	7459
50°	7277	7216	7167
55°	6938	6938	6828
60°	6515	6640	6405
65°	5962	6259	5813
70°	5255	5761	5117
75°	4488	5155	4367
80°	3480	4338	3525
85°	2249	3335	2969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	1.5
10°-20°	513.4	4.3
20°-30°	761.5	6.4
30°-40°	891.1	7.5
40°-50°	887.1	7.5
50°-60°	766.0	6.5
60°-70°	551.4	4.6
70°-80°	289.2	2.4
80°-90°	73.9	0.6
90°-100°	500.5	4.2
100°-110°	1381.7	11.7
110°-120°	1425.0	12.0
120°-130°	1145.1	9.7
130°-140°	899.9	7.6
140°-150°	690.2	5.8
150°-160°	496.0	4.2
160°-170°	303.4	2.6
170°-180°	102.3	0.9
0°-30°	1456.8	12.3
0°-40°	2347.8	19.8
0°-60°	4001.0	33.7
0°-90°	4915.4	41.4
90°-120°	3307.2	27.9
90°-150°	6042.4	50.9
90°-180°	6944.0	58.6
0°-180°	11859.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1936	1915	1921	1916	1912	183
15°	1843	1819	1822	1819	1815	519
25°	1684	1656	1654	1644	1649	775
35°	1448	1428	1428	1414	1419	905
45°	1164	1154	1148	1145	1143	898
55°	863	861	863	851	849	770
65°	546	563	573	551	532	541
75°	252	275	289	270	245	270
85°	42	56	63	60	56	56
90°	3	7	14	15	17	7
95°	74	271	908	373	243	79
105°	246	380	1520	2321	2185	262
115°	441	533	1224	2424	2756	434
125°	605	689	1110	1878	2204	539
135°	728	807	1079	1521	1715	564
145°	845	903	1065	1295	1394	529
155°	952	984	1057	1162	1199	439
165°	1031	1044	1062	1103	1112	291
175°	1069	1070	1064	1079	1076	102
180°	1069	1069	1069	1069	1069	

TEST NUMBER: P564952

CATALOG NUMBER: SQ4-PW1-100U-075D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1931.1	1931.1	1931.1	1931.1	1931.1
2.5°	1942.0	1926.0	1931.1	1926.8	1917.5
5°	1936.2	1914.6	1920.9	1915.7	1912.4
7.5°	1916.5	1896.5	1901.2	1895.7	1893.7
10°	1898.8	1878.8	1883.5	1876.6	1873.2
12.5°	1878.4	1857.1	1861.7	1854.8	1852.8
15°	1842.6	1819.3	1822.2	1818.7	1815.4
17.5°	1801.1	1777.5	1778.0	1772.5	1771.8
20°	1771.2	1746.2	1743.9	1737.2	1740.5
22.5°	1738.5	1712.2	1709.9	1700.5	1705.1
25°	1684.4	1656.1	1653.8	1643.7	1648.7
27.5°	1621.8	1593.8	1593.9	1579.7	1585.0
30°	1575.5	1548.9	1551.7	1534.8	1541.5
32.5°	1526.5	1502.5	1504.0	1487.2	1493.8
35°	1447.9	1427.9	1427.5	1414.0	1419.0
37.5°	1367.6	1350.0	1347.2	1339.4	1340.7
40°	1311.8	1296.8	1291.4	1286.3	1286.3
42.5°	1253.3	1239.6	1234.2	1230.4	1229.1
45°	1163.8	1153.8	1148.4	1145.0	1143.3
47.5°	1075.3	1066.0	1061.3	1058.9	1057.3
50°	1014.0	1007.4	1005.5	1000.4	998.7
52.5°	952.8	948.8	947.0	940.5	938.8
55°	862.6	860.9	862.6	850.7	849.0
57.5°	768.7	771.4	776.9	760.8	756.8
60°	706.1	712.7	719.7	700.8	694.2
62.5°	642.1	652.8	662.5	640.9	631.6
65°	546.2	562.8	573.4	550.8	532.5
67.5°	453.6	474.2	486.9	462.7	442.0
70°	389.6	412.9	427.1	402.7	379.4
72.5°	333.8	359.8	371.2	348.3	325.0
75°	251.8	275.1	289.2	270.0	245.0
77.5°	178.6	200.6	212.3	195.5	174.9
80°	131.0	154.3	163.3	149.3	132.7
82.5°	92.9	112.2	118.4	110.0	98.7
85°	42.5	55.8	63.0	59.5	56.1
87.5°	11.6	21.6	28.6	29.0	30.6
90°	3.4	6.8	13.7	15.4	17.1
92.5°	30.8	127.8	228.5	83.4	65.0
95°	73.5	270.8	908.0	373.2	242.8
97.5°	121.7	303.3	1345.1	1035.6	750.0
100°	157.3	322.8	1506.5	1517.1	1232.9
102.5°	191.5	345.0	1537.9	1874.5	1605.0
105°	246.2	380.0	1520.2	2320.8	2185.3
107.5°	304.4	423.4	1435.3	2536.0	2585.5
110°	345.4	452.4	1369.7	2582.3	2742.8



TEST NUMBER: P564952

CATALOG NUMBER: SQ4-PW1-100U-075D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.3	485.3	1308.1	2545.7	2782.5
115°	441.2	533.1	1224.3	2423.8	2756.5
117.5°	492.5	584.1	1169.3	2252.1	2630.6
120°	526.7	617.0	1147.4	2135.9	2517.1
122.5°	559.5	645.8	1129.6	2027.3	2388.5
125°	605.3	688.9	1109.8	1878.1	2204.2
127.5°	644.3	727.9	1098.1	1751.9	2033.2
130°	670.3	753.9	1092.7	1674.7	1930.6
132.5°	694.9	774.5	1087.2	1609.9	1841.6
135°	728.4	807.0	1079.0	1521.2	1715.1
137.5°	766.1	837.6	1074.9	1446.6	1612.2
140°	786.6	856.8	1072.2	1396.9	1542.4
142.5°	809.8	874.7	1069.4	1352.8	1480.8
145°	844.7	903.2	1065.3	1295.0	1393.6
147.5°	878.2	929.4	1061.5	1246.3	1322.8
150°	902.9	944.7	1060.2	1217.2	1279.1
152.5°	922.0	961.1	1058.8	1192.3	1243.5
155°	952.5	984.2	1056.8	1161.9	1198.7
157.5°	980.5	1004.9	1057.1	1139.8	1164.8
160°	996.9	1018.6	1058.5	1127.3	1145.7
162.5°	1010.6	1029.7	1059.8	1116.3	1130.6
165°	1031.1	1044.5	1061.9	1103.1	1111.5
167.5°	1046.8	1054.9	1063.6	1095.1	1097.8
170°	1055.1	1061.7	1063.6	1091.0	1091.0
172.5°	1061.9	1065.9	1063.6	1085.5	1084.1
175°	1068.7	1070.4	1063.6	1078.9	1075.6
177.5°	1071.5	1070.1	1063.3	1072.8	1070.1
180°	1068.7	1068.7	1068.7	1068.7	1068.7

(END OF REPORT)