

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: P562389

Luminaire Tested: **SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562389
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

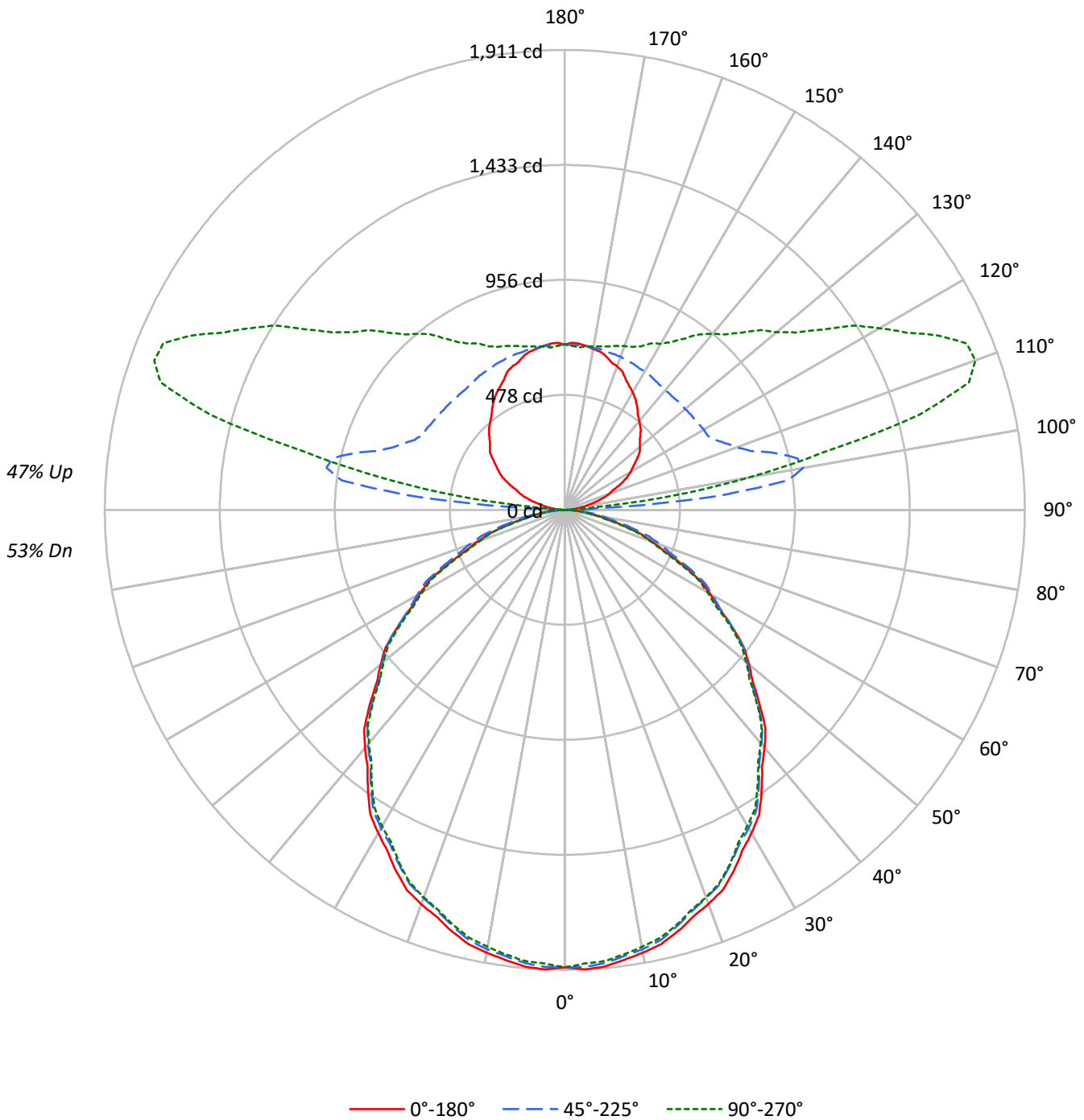
Lumens per Lamp: N/A
Luminaire Lumens: 9105.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 88.1
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	94	90	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38
3	82	73	65	59	76	67	61	56	58	53	49	49	45	42	41	38	36	32
4	75	64	56	50	69	60	53	47	52	46	42	44	40	36	37	34	31	28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	32	33	30	27	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19
8	55	42	34	29	50	39	32	28	34	29	25	30	25	22	25	22	19	17
9	51	39	31	26	47	36	29	25	32	26	22	27	23	20	23	20	17	15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17535	17535	17535
5°	17649	17509	17432
10°	17508	17366	17273
15°	17322	17130	17066
20°	17115	16852	16819
25°	16876	16569	16518
30°	16519	16270	16162
35°	16050	15824	15730
40°	15550	15308	15246
45°	14945	14748	14683
50°	14325	14204	14108
55°	13656	13656	13441
60°	12823	13070	12607
65°	11734	12319	11442
70°	10345	11338	10073
75°	8833	10149	8595
80°	6849	8544	6939
85°	4435	6563	5854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	2.0
10°-20°	505.3	5.5
20°-30°	749.5	8.2
30°-40°	877.0	9.6
40°-50°	873.1	9.6
50°-60°	753.9	8.3
60°-70°	542.7	6.0
70°-80°	284.6	3.1
80°-90°	70.6	0.8
90°-100°	313.2	3.4
100°-110°	891.3	9.8
110°-120°	853.9	9.4
120°-130°	675.9	7.4
130°-140°	542.5	6.0
140°-150°	424.7	4.7
150°-160°	310.7	3.4
160°-170°	192.5	2.1
170°-180°	65.3	0.7
0°-30°	1433.8	15.7
0°-40°	2310.7	25.4
0°-60°	3937.8	43.2
0°-90°	4835.6	53.1
90°-120°	2058.5	22.6
90°-150°	3701.5	40.7
90°-180°	4270.0	46.9
0°-180°	9105.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1906	1884	1890	1885	1882	180
15°	1814	1791	1793	1790	1787	511
25°	1658	1630	1628	1618	1623	762
35°	1425	1405	1405	1392	1397	891
45°	1145	1136	1130	1127	1125	884
55°	849	847	849	837	836	757
65°	538	554	564	542	524	533
75°	248	271	285	266	241	266
85°	42	55	62	58	55	55
90°	0	0	0	0	0	3
95°	34	135	606	210	129	39
105°	138	210	908	1604	1525	147
115°	258	311	689	1459	1713	253
125°	363	403	657	1091	1304	325
135°	444	481	650	922	1042	343
145°	524	551	655	798	869	327
155°	599	613	670	721	750	277
165°	661	664	678	693	703	186
175°	693	689	686	682	677	66
180°	687	687	687	687	687	

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CATALOG NUMBER: SQ4-PW1-100U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.6	1900.6	1900.6	1900.6	1900.6
2.5°	1911.3	1895.6	1900.6	1896.4	1887.2
5°	1905.6	1884.3	1890.5	1885.4	1882.2
7.5°	1886.2	1866.5	1871.1	1865.7	1863.7
10°	1868.8	1849.1	1853.7	1846.9	1843.7
12.5°	1848.7	1827.7	1832.3	1825.5	1823.6
15°	1813.5	1790.6	1793.4	1790.0	1786.7
17.5°	1772.7	1749.4	1749.9	1744.5	1743.9
20°	1743.2	1718.6	1716.4	1709.8	1713.0
22.5°	1711.0	1685.2	1682.9	1673.6	1678.2
25°	1657.8	1629.9	1627.6	1617.7	1622.6
27.5°	1596.2	1568.7	1568.7	1554.8	1560.0
30°	1550.6	1524.4	1527.2	1510.6	1517.1
32.5°	1502.4	1478.8	1480.3	1463.7	1470.2
35°	1425.0	1405.4	1404.9	1391.6	1396.6
37.5°	1346.0	1328.6	1325.9	1318.2	1319.5
40°	1291.1	1276.3	1271.0	1265.9	1265.9
42.5°	1233.5	1220.0	1214.7	1211.0	1209.7
45°	1145.4	1135.6	1130.3	1126.9	1125.3
47.5°	1058.3	1049.1	1044.6	1042.2	1040.6
50°	998.0	991.5	989.6	984.6	982.9
52.5°	937.7	933.8	932.0	925.6	924.0
55°	849.0	847.3	849.0	837.2	835.6
57.5°	756.6	759.2	764.6	748.8	744.8
60°	694.9	701.5	708.3	689.8	683.2
62.5°	632.0	642.4	652.1	630.8	621.6
65°	537.5	553.9	564.3	542.1	524.1
67.5°	446.4	466.7	479.2	455.3	435.0
70°	383.5	406.4	420.3	396.3	373.4
72.5°	328.5	354.1	365.4	342.8	319.8
75°	247.8	270.8	284.7	265.7	241.1
77.5°	175.8	197.4	209.0	192.4	172.1
80°	128.9	151.9	160.8	147.0	130.6
82.5°	91.4	110.4	116.5	108.3	97.1
85°	41.9	55.0	62.0	58.5	55.3
87.5°	10.7	19.9	25.5	25.5	26.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	55.4	128.6	37.4	28.2
95°	34.0	134.9	606.4	209.9	129.4
97.5°	62.5	158.1	933.9	668.3	457.9
100°	82.3	171.8	1005.0	1018.0	784.1
102.5°	104.3	186.6	989.3	1303.0	1098.8
105°	138.5	210.1	908.3	1604.4	1525.1
107.5°	173.3	237.4	813.7	1689.3	1759.9
110°	197.3	257.4	759.3	1656.8	1815.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.3	277.3	722.7	1579.9	1805.9
115°	257.5	311.1	688.7	1459.0	1713.3
117.5°	290.1	340.5	668.6	1326.9	1596.2
120°	316.3	358.4	666.5	1251.3	1509.5
122.5°	337.2	379.3	661.3	1185.0	1424.8
125°	363.3	402.9	657.4	1090.9	1304.3
127.5°	391.8	428.9	655.3	1034.6	1210.4
130°	406.4	443.5	652.1	995.4	1148.8
132.5°	422.1	458.2	652.1	964.8	1105.9
135°	444.3	481.4	649.5	921.5	1041.6
137.5°	465.3	501.3	649.3	884.8	988.5
140°	480.9	518.0	648.2	854.4	954.0
142.5°	498.7	529.6	651.4	830.1	919.5
145°	524.1	550.9	654.8	797.5	869.1
147.5°	545.8	571.8	660.5	764.6	826.5
150°	564.6	582.5	662.6	753.8	797.2
152.5°	579.2	598.1	664.7	739.0	779.4
155°	598.6	612.6	670.4	720.8	750.2
157.5°	622.6	631.0	671.7	712.5	733.4
160°	635.1	641.5	677.0	706.1	724.0
162.5°	642.5	649.9	678.0	700.8	714.6
165°	661.3	663.8	678.3	692.9	703.1
167.5°	674.1	671.8	684.3	690.9	695.0
170°	678.3	677.0	682.2	683.6	688.7
172.5°	687.7	683.3	685.3	681.5	685.6
175°	692.7	688.8	686.1	682.1	677.0
177.5°	694.7	688.6	685.3	681.2	682.2
180°	687.4	687.4	687.4	687.4	687.4

(END OF REPORT)