

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: P564314

Luminaire Tested: **SQ4-PR1-100U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564314
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-100U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

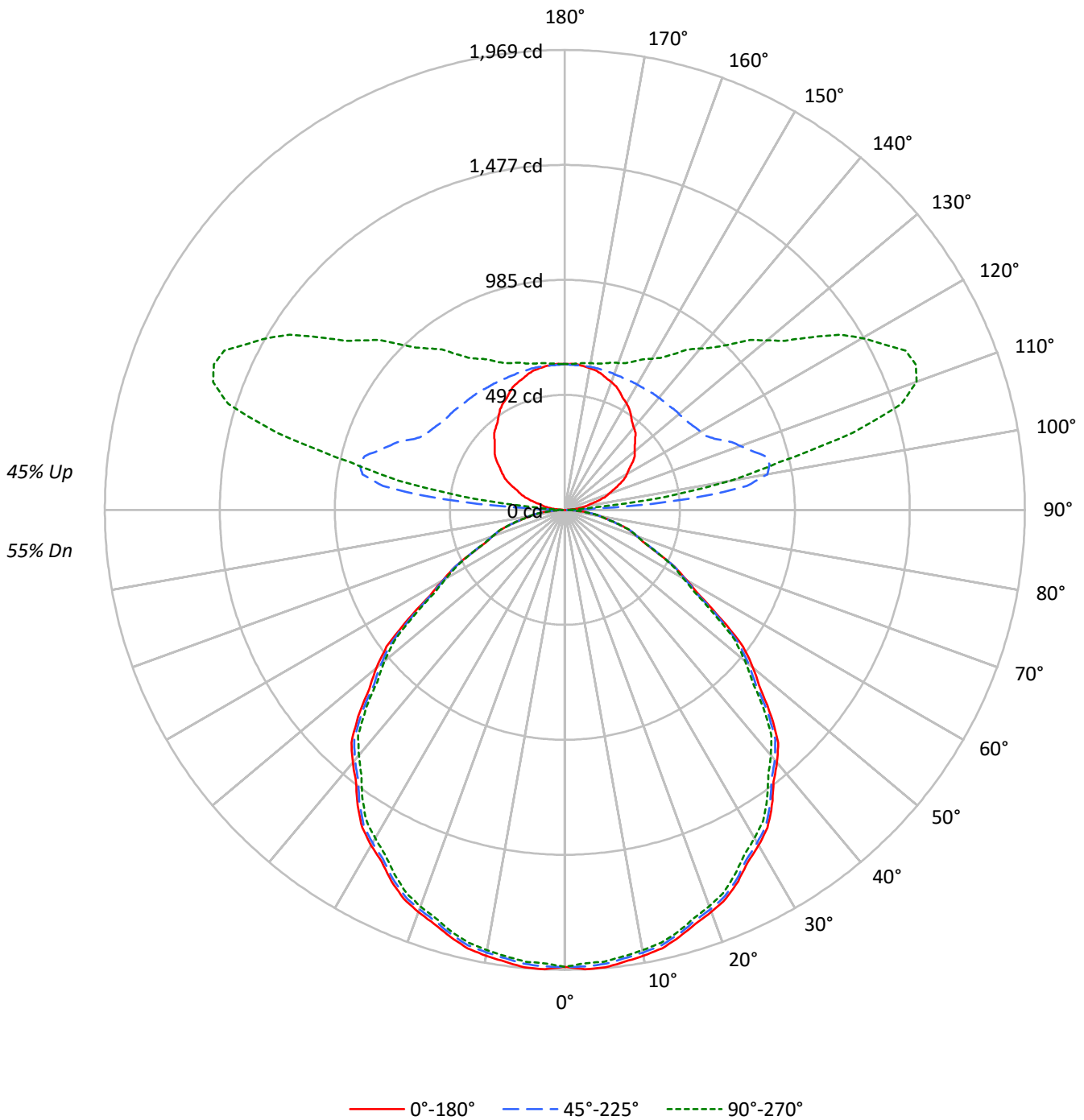
Lumens per Lamp: N/A
Luminaire Lumens: 8949.6 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68.7
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	86	86	86	73	73	73	60	60	60	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	91	83	77	72	84	78	72	68	67	63	60	57	54	52	48	46	44	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	49	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	32	29	31	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18076	17981
10°	18158	18032	17937
15°	18078	17966	17869
20°	17987	17871	17739
25°	17861	17741	17534
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16316	16031	15702
50°	15095	14732	14442
55°	13176	12876	12606
60°	11103	11009	10791
65°	9603	9641	9566
70°	8821	8864	8864
75°	8470	8470	8530
80°	7970	8060	7970
85°	6426	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	2.1
10°-20°	529.4	5.9
20°-30°	798.5	8.9
30°-40°	951.4	10.6
40°-50°	938.0	10.5
50°-60°	716.9	8.0
60°-70°	443.6	5.0
70°-80°	252.0	2.8
80°-90°	77.9	0.9
90°-100°	292.4	3.3
100°-110°	807.2	9.0
110°-120°	832.5	9.3
120°-130°	669.0	7.5
130°-140°	525.7	5.9
140°-150°	403.2	4.5
150°-160°	289.8	3.2
160°-170°	177.2	2.0
170°-180°	59.8	0.7
0°-30°	1513.0	16.9
0°-40°	2464.4	27.5
0°-60°	4119.3	46.0
0°-90°	4892.9	54.7
90°-120°	1932.1	21.6
90°-150°	3530.0	39.4
90°-180°	4057.0	45.3
0°-180°	8949.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1957	1957	1957	1957	1957	
5°	1967	1945	1952	1945	1942	187
15°	1893	1873	1881	1874	1871	534
25°	1754	1733	1743	1724	1722	807
35°	1546	1527	1532	1512	1510	965
45°	1250	1234	1229	1207	1203	958
55°	819	806	800	787	784	734
65°	440	437	442	438	438	446
75°	238	238	238	239	239	251
85°	61	64	67	67	67	71
90°	2	4	8	9	10	5
95°	43	158	530	218	142	46
105°	144	222	888	1356	1277	153
115°	258	312	715	1416	1610	253
125°	354	402	648	1097	1288	315
135°	426	472	630	889	1002	329
145°	494	528	622	756	814	309
155°	556	575	617	679	700	256
165°	602	610	620	644	649	170
175°	624	625	621	630	628	59
180°	624	624	624	624	624	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956.7	1956.7	1956.7	1956.7	1956.7
2.5°	1968.8	1951.7	1956.7	1952.5	1943.2
5°	1966.8	1945.4	1951.7	1944.8	1941.5
7.5°	1951.7	1930.6	1936.8	1930.0	1928.1
10°	1938.2	1918.4	1924.7	1917.9	1914.6
12.5°	1923.3	1902.2	1909.9	1901.7	1898.4
15°	1892.7	1872.9	1880.9	1874.1	1870.8
17.5°	1859.0	1837.9	1845.8	1838.0	1833.7
20°	1832.0	1812.2	1820.2	1808.4	1806.7
22.5°	1802.3	1782.6	1790.5	1774.7	1774.4
25°	1754.5	1733.0	1742.7	1724.1	1722.4
27.5°	1697.5	1677.7	1685.7	1666.8	1664.8
30°	1658.4	1638.6	1646.6	1626.3	1623.0
32.5°	1613.9	1595.4	1602.1	1581.8	1579.9
35°	1545.5	1527.4	1532.0	1511.7	1510.1
37.5°	1467.6	1451.1	1453.8	1431.5	1429.9
40°	1412.3	1395.9	1397.2	1373.5	1371.9
42.5°	1351.7	1335.2	1333.8	1310.2	1308.5
45°	1250.5	1234.1	1228.6	1206.6	1203.4
47.5°	1135.3	1118.8	1108.6	1090.7	1088.4
50°	1051.7	1035.2	1026.4	1011.1	1006.2
52.5°	961.3	944.9	937.4	923.5	918.5
55°	819.1	805.9	800.5	787.0	783.7
57.5°	683.9	675.0	673.5	660.3	659.0
60°	601.7	596.7	596.6	584.8	584.8
62.5°	531.6	527.9	530.6	522.8	521.5
65°	439.9	436.6	441.6	438.2	438.2
67.5°	367.4	367.4	370.4	369.1	369.1
70°	327.0	327.0	328.6	328.6	328.6
72.5°	290.6	289.2	293.6	293.6	292.2
75°	237.6	237.6	237.6	239.3	239.3
77.5°	185.1	185.4	186.7	186.4	185.1
80°	150.0	151.6	151.7	150.0	150.0
82.5°	114.9	116.6	116.6	116.3	114.9
85°	60.7	64.0	67.4	67.4	67.4
87.5°	17.9	23.6	28.6	28.7	27.6
90°	2.0	4.0	8.0	9.0	10.0
92.5°	18.0	74.6	133.5	48.7	38.0
95°	43.0	158.2	530.5	218.0	141.9
97.5°	71.1	177.2	785.8	605.0	438.1
100°	91.9	188.6	880.1	886.3	720.3
102.5°	111.9	201.6	898.5	1095.1	937.6
105°	143.9	222.0	888.1	1355.8	1276.7
107.5°	177.8	247.4	838.5	1481.5	1510.4
110°	201.8	264.3	800.2	1508.6	1602.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.4	283.5	764.2	1487.2	1625.5
115°	257.7	311.5	715.3	1416.0	1610.3
117.5°	287.7	341.2	683.1	1315.7	1536.8
120°	307.7	360.4	670.3	1247.8	1470.5
122.5°	326.9	377.3	659.9	1184.4	1395.4
125°	353.6	402.5	648.3	1097.2	1287.7
127.5°	376.4	425.2	641.5	1023.5	1187.8
130°	391.6	440.4	638.3	978.4	1127.8
132.5°	406.0	452.5	635.1	940.5	1075.9
135°	425.6	471.5	630.3	888.7	1002.0
137.5°	447.5	489.3	628.0	845.1	941.8
140°	459.5	500.5	626.4	816.1	901.1
142.5°	473.1	511.0	624.8	790.3	865.1
145°	493.5	527.7	622.4	756.5	814.2
147.5°	513.1	543.0	620.2	728.1	772.8
150°	527.5	551.9	619.4	711.1	747.2
152.5°	538.6	561.5	618.6	696.6	726.4
155°	556.4	575.0	617.4	678.8	700.3
157.5°	572.8	587.1	617.6	665.8	680.5
160°	582.4	595.1	618.4	658.6	669.3
162.5°	590.4	601.5	619.2	652.1	660.5
165°	602.4	610.2	620.4	644.4	649.3
167.5°	611.6	616.3	621.4	639.8	641.3
170°	616.4	620.3	621.4	637.3	637.3
172.5°	620.4	622.7	621.4	634.1	633.3
175°	624.4	625.3	621.4	630.3	628.4
177.5°	626.0	625.2	621.2	626.7	625.2
180°	624.4	624.4	624.4	624.4	624.4

(END OF REPORT)