

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: P564999

Luminaire Tested: **SQ4-PW1-100U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564999
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-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

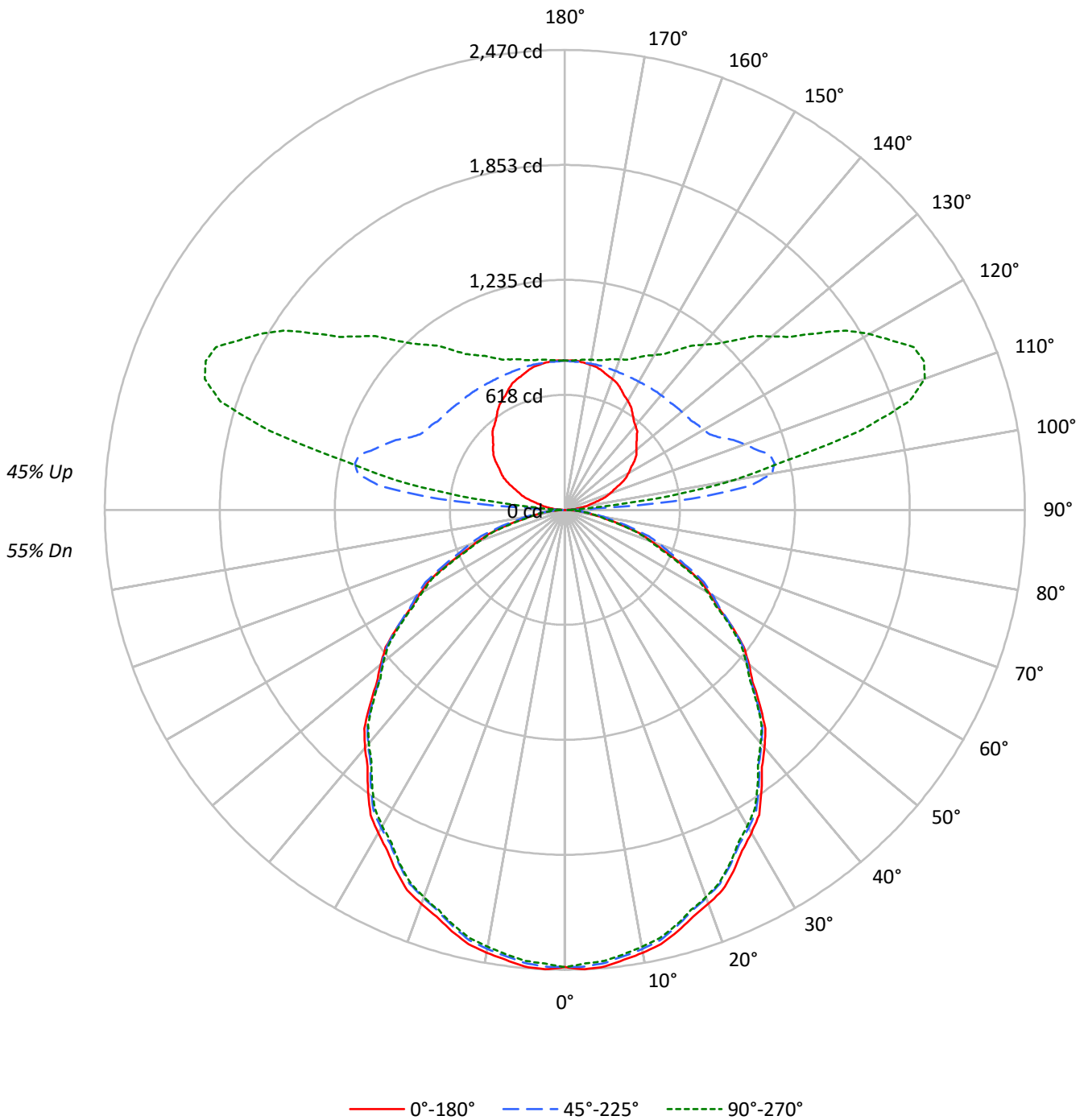
Lumens per Lamp: N/A
Luminaire Lumens: 11457.8 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	90	83	77	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	60	76	68	61	56	59	54	49	50	46	43	42	39	37	33
4	75	64	57	50	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28	25
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14878
15°	14922	14756	14701
20°	14743	14517	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13394	13186	13134
45°	12874	12704	12648
50°	12340	12236	12154
55°	11764	11764	11578
60°	11046	11258	10860
65°	10108	10613	9856
70°	8911	9767	8677
75°	7610	8741	7405
80°	5901	7357	5979
85°	3818	5653	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	2.0
10°-20°	652.9	5.7
20°-30°	968.4	8.5
30°-40°	1133.2	9.9
40°-50°	1128.1	9.8
50°-60°	974.2	8.5
60°-70°	701.2	6.1
70°-80°	367.7	3.2
80°-90°	92.8	0.8
90°-100°	375.4	3.3
100°-110°	1036.3	9.0
110°-120°	1068.7	9.3
120°-130°	858.8	7.5
130°-140°	674.9	5.9
140°-150°	517.7	4.5
150°-160°	372.0	3.2
160°-170°	227.5	2.0
170°-180°	76.7	0.7
0°-30°	1852.6	16.2
0°-40°	2985.7	26.1
0°-60°	5088.0	44.4
0°-90°	6249.8	54.5
90°-120°	2480.4	21.6
90°-150°	4531.8	39.6
90°-180°	5208.0	45.5
0°-180°	11457.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2456	2456	2456	2456	2456	
5°	2462	2435	2443	2436	2432	233
15°	2343	2314	2317	2313	2309	660
25°	2142	2106	2103	2090	2097	985
35°	1841	1816	1815	1798	1804	1151
45°	1480	1467	1460	1456	1454	1142
55°	1097	1095	1097	1082	1080	979
65°	694	716	729	700	677	688
75°	320	350	368	343	312	343
85°	54	71	80	76	71	71
90°	3	5	10	12	13	6
95°	55	203	681	280	182	59
105°	185	285	1140	1741	1639	196
115°	331	400	918	1818	2067	325
125°	454	517	832	1409	1653	404
135°	546	605	809	1141	1286	423
145°	634	677	799	971	1045	397
155°	714	738	793	871	899	329
165°	773	783	796	827	834	218
175°	802	803	798	809	807	76
180°	802	802	802	802	802	

TEST NUMBER: P564999

CATALOG NUMBER: SQ4-PW1-100U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2455.8	2455.8	2455.8	2455.8	2455.8
2.5°	2469.6	2449.3	2455.8	2450.3	2438.5
5°	2462.3	2434.8	2442.8	2436.2	2432.0
7.5°	2437.2	2411.8	2417.7	2410.7	2408.2
10°	2414.7	2389.3	2395.2	2386.4	2382.2
12.5°	2388.7	2361.6	2367.5	2358.8	2356.2
15°	2343.3	2313.6	2317.3	2312.9	2308.6
17.5°	2290.5	2260.4	2261.0	2254.1	2253.3
20°	2252.4	2220.7	2217.8	2209.2	2213.4
22.5°	2210.9	2177.4	2174.5	2162.5	2168.4
25°	2142.0	2106.1	2103.1	2090.3	2096.6
27.5°	2062.4	2026.9	2026.9	2008.9	2015.7
30°	2003.6	1969.7	1973.3	1951.8	1960.3
32.5°	1941.3	1910.8	1912.7	1891.3	1899.7
35°	1841.3	1815.9	1815.3	1798.2	1804.5
37.5°	1739.2	1716.7	1713.2	1703.3	1705.0
40°	1668.2	1649.2	1642.2	1635.7	1635.7
42.5°	1593.8	1576.4	1569.5	1564.7	1563.0
45°	1480.0	1467.3	1460.5	1456.1	1454.0
47.5°	1367.4	1355.6	1349.7	1346.6	1344.5
50°	1289.6	1281.1	1278.7	1272.2	1270.1
52.5°	1211.7	1206.6	1204.3	1196.0	1193.9
55°	1097.0	1094.9	1097.0	1081.8	1079.7
57.5°	977.6	980.9	987.9	967.5	962.4
60°	897.9	906.4	915.2	891.2	882.8
62.5°	816.6	830.1	842.5	815.0	803.2
65°	694.5	715.7	729.2	700.5	677.2
67.5°	576.8	603.1	619.2	588.4	562.1
70°	495.5	525.1	543.1	512.1	482.5
72.5°	424.5	457.5	472.1	442.9	413.3
75°	320.2	349.8	367.8	343.3	311.6
77.5°	227.2	255.1	270.0	248.7	222.4
80°	166.6	196.2	207.7	189.9	168.8
82.5°	118.1	142.7	150.6	139.9	125.5
85°	54.1	71.0	80.1	75.6	71.4
87.5°	14.4	26.7	34.9	35.2	37.2
90°	2.6	5.1	10.3	11.6	12.8
92.5°	23.1	95.8	171.3	62.5	48.7
95°	55.1	203.1	681.0	279.9	182.1
97.5°	91.3	227.5	1008.8	776.7	562.5
100°	118.0	242.1	1129.9	1137.8	924.7
102.5°	143.6	258.8	1153.5	1405.9	1203.7
105°	184.7	285.0	1140.1	1740.6	1639.0
107.5°	228.3	317.6	1076.5	1902.0	1939.1
110°	259.1	339.3	1027.3	1936.7	2057.1

TEST NUMBER: P564999

CATALOG NUMBER: SQ4-PW1-100U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.8	364.0	981.1	1909.3	2086.8
115°	330.9	399.8	918.3	1817.8	2067.4
117.5°	369.4	438.1	877.0	1689.1	1973.0
120°	395.0	462.7	860.5	1601.9	1887.8
122.5°	419.6	484.3	847.2	1520.5	1791.4
125°	454.0	516.7	832.3	1408.6	1653.1
127.5°	483.2	545.9	823.6	1313.9	1524.9
130°	502.7	565.4	819.5	1256.1	1447.9
132.5°	521.2	580.9	815.4	1207.4	1381.2
135°	546.3	605.3	809.2	1140.9	1286.3
137.5°	574.6	628.2	806.2	1085.0	1209.1
140°	589.9	642.6	804.1	1047.7	1156.8
142.5°	607.4	656.0	802.1	1014.6	1110.6
145°	633.5	677.4	799.0	971.2	1045.2
147.5°	658.7	697.1	796.2	934.7	992.1
150°	677.1	708.5	795.1	912.9	959.3
152.5°	691.5	720.9	794.1	894.2	932.6
155°	714.3	738.2	792.6	871.4	899.0
157.5°	735.4	753.7	792.8	854.8	873.6
160°	747.7	764.0	793.9	845.5	859.3
162.5°	757.9	772.2	794.9	837.2	848.0
165°	773.3	783.4	796.4	827.3	833.6
167.5°	785.1	791.2	797.7	821.3	823.4
170°	791.3	796.3	797.7	818.2	818.2
172.5°	796.4	799.4	797.7	814.1	813.1
175°	801.5	802.8	797.7	809.2	806.7
177.5°	803.6	802.6	797.4	804.6	802.6
180°	801.5	801.5	801.5	801.5	801.5

(END OF REPORT)