

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: P562378

Luminaire Tested: **SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562378
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-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

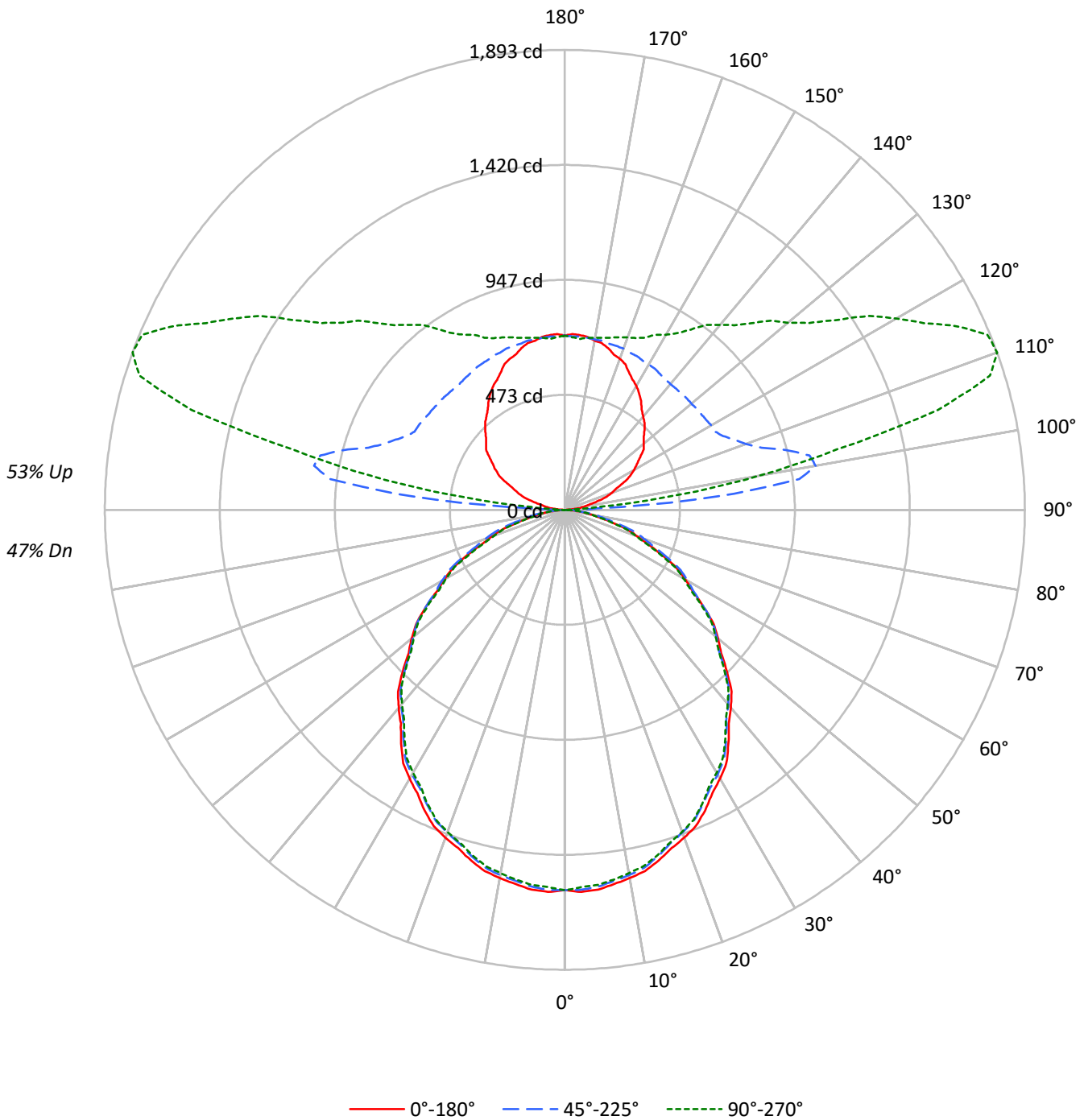
Lumens per Lamp: N/A
Luminaire Lumens: 8435.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.8
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



TEST NUMBER: P562378
CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P562378

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

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	50	30	10	50	30	10	0		
RCR	0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47	47	47	47		
	1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	46	45	40	40	40	40	40	40		
	2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34	34	34	34		
	3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33	29	29	29	29	29	29		
	4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	30	28	25	25	25	25	25	25		
	5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21	21	21		
	6	63	51	42	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19	19	19	19	19	19		
	7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17	17	17	17	17	17		
	8	54	41	34	28	49	38	32	27	33	27	24	28	23	20	23	20	17	15	15	15	15	15	15		
	9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13	13	13		
	10	47	35	27	23	43	32	26	21	28	23	19	24	19	17	20	16	14	12	12	12	12	12	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14442	14442	14442
5°	14536	14420	14356
10°	14419	14303	14225
15°	14266	14108	14055
20°	14096	13879	13853
25°	13899	13646	13605
30°	13606	13400	13312
35°	13218	13033	12955
40°	12806	12608	12557
45°	12308	12146	12093
50°	11799	11699	11621
55°	11247	11247	11070
60°	10560	10765	10383
65°	9665	10147	9424
70°	8519	9339	8295
75°	7276	8359	7080
80°	5643	7035	5717
85°	3652	5399	4817



TEST NUMBER: P562378

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.7
10°-20°	416.1	4.9
20°-30°	617.3	7.3
30°-40°	722.3	8.6
40°-50°	719.1	8.5
50°-60°	620.9	7.4
60°-70°	447.0	5.3
70°-80°	234.4	2.8
80°-90°	58.1	0.7
90°-100°	326.6	3.9
100°-110°	929.4	11.0
110°-120°	890.4	10.6
120°-130°	704.7	8.4
130°-140°	565.7	6.7
140°-150°	442.8	5.3
150°-160°	324.0	3.8
160°-170°	200.7	2.4
170°-180°	68.1	0.8
0°-30°	1180.8	14.0
0°-40°	1903.1	22.6
0°-60°	3243.1	38.4
0°-90°	3982.6	47.2
90°-120°	2146.4	25.4
90°-150°	3859.7	45.8
90°-180°	4453.0	52.8
0°-180°	8435.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1570	1552	1557	1553	1550	149
15°	1494	1475	1477	1474	1472	421
25°	1365	1342	1340	1332	1336	628
35°	1174	1158	1157	1146	1150	734
45°	943	935	931	928	927	728
55°	699	698	699	690	688	624
65°	443	456	465	446	432	439
75°	204	223	234	219	199	219
85°	34	45	51	48	46	45
90°	0	0	0	0	0	3
95°	35	141	632	219	135	40
105°	144	219	947	1673	1590	153
115°	268	324	718	1521	1786	264
125°	379	420	686	1138	1360	339
135°	463	502	677	961	1086	358
145°	546	574	683	832	906	341
155°	624	639	699	752	782	289
165°	690	692	707	722	733	194
175°	722	718	715	711	706	68
180°	717	717	717	717	717	

TEST NUMBER: P562378

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.3	1565.3	1565.3	1565.3	1565.3
2.5°	1574.1	1561.2	1565.3	1561.8	1554.3
5°	1569.5	1551.9	1557.0	1552.8	1550.1
7.5°	1553.5	1537.3	1541.0	1536.6	1535.0
10°	1539.1	1522.9	1526.7	1521.1	1518.4
12.5°	1522.6	1505.3	1509.0	1503.5	1501.9
15°	1493.6	1474.7	1477.0	1474.2	1471.5
17.5°	1459.9	1440.8	1441.2	1436.8	1436.2
20°	1435.7	1415.4	1413.6	1408.2	1410.9
22.5°	1409.2	1387.9	1386.0	1378.4	1382.2
25°	1365.3	1342.4	1340.5	1332.3	1336.4
27.5°	1314.6	1291.9	1292.0	1280.5	1284.8
30°	1277.1	1255.5	1257.8	1244.1	1249.5
32.5°	1237.4	1217.9	1219.2	1205.5	1210.9
35°	1173.6	1157.5	1157.1	1146.2	1150.2
37.5°	1108.5	1094.3	1092.0	1085.7	1086.8
40°	1063.3	1051.2	1046.8	1042.6	1042.6
42.5°	1015.9	1004.8	1000.4	997.4	996.3
45°	943.3	935.2	930.9	928.1	926.8
47.5°	871.6	864.1	860.3	858.3	857.0
50°	822.0	816.6	815.1	810.9	809.6
52.5°	772.3	769.1	767.6	762.4	761.0
55°	699.2	697.9	699.2	689.5	688.2
57.5°	623.1	625.2	629.7	616.7	613.4
60°	572.3	577.7	583.4	568.1	562.7
62.5°	520.5	529.1	537.0	519.5	511.9
65°	442.7	456.2	464.8	446.5	431.7
67.5°	367.7	384.4	394.7	375.0	358.3
70°	315.8	334.7	346.2	326.4	307.5
72.5°	270.6	291.6	300.9	282.3	263.4
75°	204.1	223.0	234.5	218.8	198.6
77.5°	144.8	162.6	172.1	158.5	141.8
80°	106.2	125.1	132.4	121.1	107.6
82.5°	75.3	90.9	96.0	89.2	80.0
85°	34.5	45.3	51.0	48.2	45.5
87.5°	8.8	16.4	21.0	21.0	22.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.9	57.8	134.1	39.0	29.4
95°	35.4	140.7	632.3	218.9	134.9
97.5°	65.1	164.8	973.8	696.8	477.5
100°	85.9	179.1	1047.9	1061.5	817.6
102.5°	108.7	194.6	1031.6	1358.7	1145.8
105°	144.4	219.1	947.1	1672.9	1590.3
107.5°	180.7	247.6	848.4	1761.5	1835.1
110°	205.8	268.4	791.7	1727.6	1892.8

TEST NUMBER: P562378

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.8	289.2	753.6	1647.4	1883.0
115°	268.5	324.4	718.2	1521.4	1786.5
117.5°	302.5	355.0	697.2	1383.6	1664.4
120°	329.8	373.8	695.0	1304.8	1574.0
122.5°	351.6	395.6	689.5	1235.7	1485.7
125°	378.8	420.1	685.5	1137.5	1360.0
127.5°	408.5	447.2	683.3	1078.8	1262.2
130°	423.8	462.5	680.0	1037.9	1197.8
132.5°	440.2	477.7	680.0	1006.0	1153.1
135°	463.3	502.0	677.3	960.8	1086.1
137.5°	485.1	522.7	677.0	922.6	1030.8
140°	501.5	540.1	675.9	890.9	994.8
142.5°	520.0	552.3	679.2	865.5	958.8
145°	546.5	574.4	682.7	831.6	906.2
147.5°	569.1	596.3	688.7	797.3	861.8
150°	588.7	607.4	690.9	786.0	831.3
152.5°	604.0	623.7	693.1	770.6	812.7
155°	624.1	638.8	699.1	751.6	782.2
157.5°	649.2	658.0	700.4	742.9	764.8
160°	662.3	668.9	705.9	736.3	755.0
162.5°	669.9	677.6	707.0	730.8	745.1
165°	689.5	692.2	707.3	722.5	733.1
167.5°	702.9	700.5	713.5	720.4	724.7
170°	707.3	705.9	711.3	712.8	718.2
172.5°	717.1	712.5	714.6	710.6	714.9
175°	722.2	718.3	715.4	711.2	705.9
177.5°	724.4	718.0	714.6	710.3	711.3
180°	716.8	716.8	716.8	716.8	716.8

(END OF REPORT)