

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: P562001

Luminaire Tested: **SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562001  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-075D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 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**

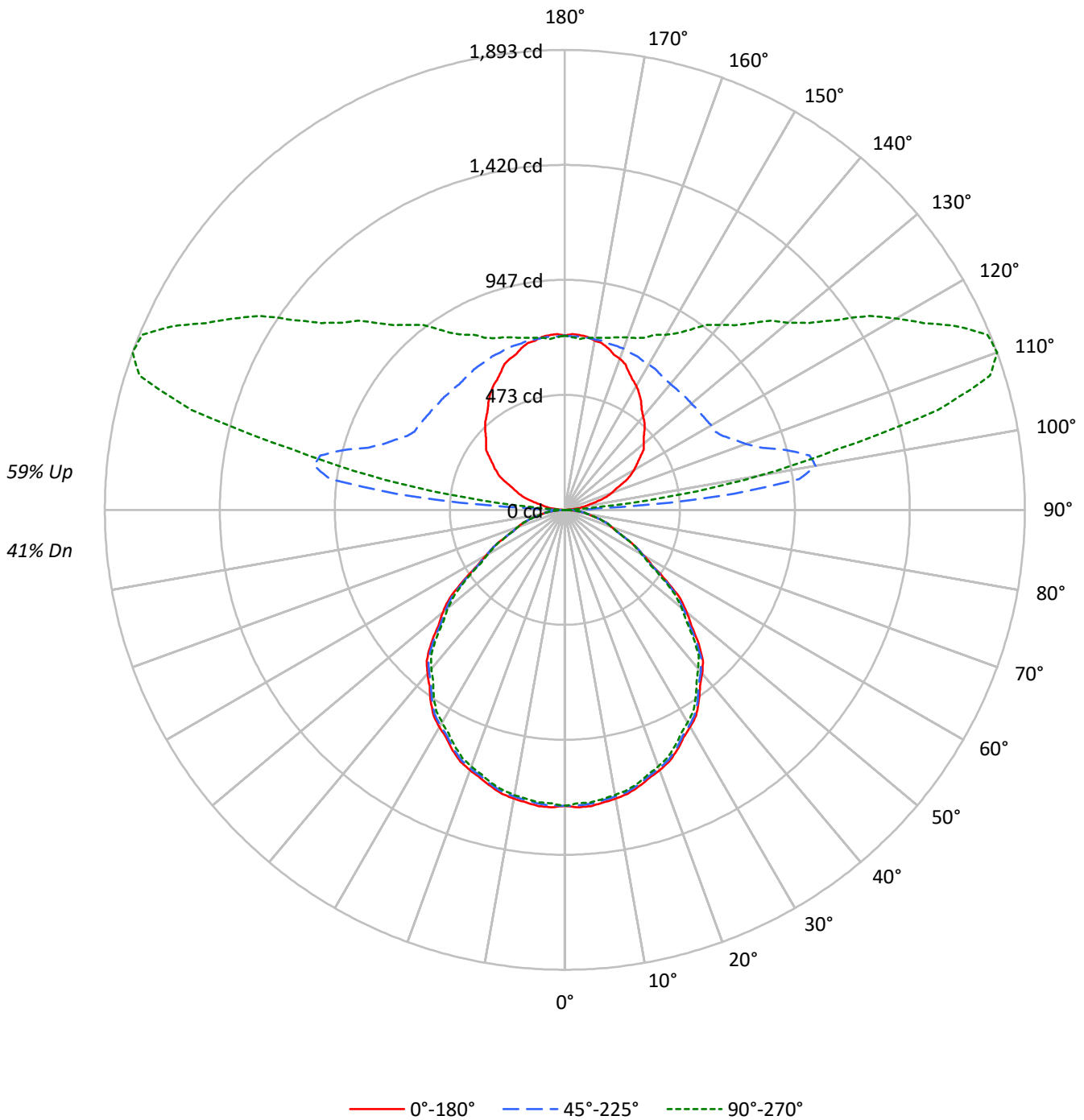
Lumens per Lamp: N/A  
Luminaire Lumens: 7497.4 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 64.3  
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



TEST NUMBER: P562001  
CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562001

CATALOG NUMBER: SQ4-PR1-100U-075D-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	0	
RCR																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35				
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	29				
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	33	31	30	25				
4	73	63	55	49	66	58	51	46	48	43	39	39	35	32	30	28	26	22				
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	27	25	22	19				
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17				
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15				
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11238	11238	11238
5°	11339	11252	11193
10°	11303	11224	11165
15°	11253	11183	11123
20°	11197	11124	11042
25°	11118	11043	10915
30°	10998	10920	10763
35°	10835	10741	10587
40°	10589	10475	10286
45°	10156	9979	9774
50°	9396	9170	8990
55°	8202	8015	7846
60°	6910	6853	6717
65°	5977	6001	5956
70°	5490	5519	5519
75°	5272	5272	5311
80°	4962	5016	4962
85°	4001	4446	4446



TEST NUMBER: P562001

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.2	1.5
10°-20°	329.5	4.4
20°-30°	497.1	6.6
30°-40°	592.2	7.9
40°-50°	583.9	7.8
50°-60°	446.2	6.0
60°-70°	276.2	3.7
70°-80°	156.8	2.1
80°-90°	47.7	0.6
90°-100°	326.6	4.4
100°-110°	929.4	12.4
110°-120°	890.4	11.9
120°-130°	704.7	9.4
130°-140°	565.7	7.5
140°-150°	442.8	5.9
150°-160°	324.0	4.3
160°-170°	200.7	2.7
170°-180°	68.1	0.9
0°-30°	941.8	12.6
0°-40°	1534.0	20.5
0°-60°	2564.2	34.2
0°-90°	3044.9	40.6
90°-120°	2146.4	28.6
90°-150°	3859.7	51.5
90°-180°	4453.0	59.4
0°-180°	7497.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1224	1211	1215	1211	1209	116
15°	1178	1166	1171	1167	1164	332
25°	1092	1079	1085	1073	1072	503
35°	962	951	954	941	940	600
45°	778	768	765	751	749	596
55°	510	502	498	490	488	457
65°	274	272	275	273	273	277
75°	148	148	148	149	149	156
85°	38	40	42	42	42	44
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: P562001

CATALOG NUMBER: SQ4-PR1-100U-075D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1218.0	1218.0	1218.0	1218.0	1218.0
2.5°	1225.6	1214.9	1218.0	1215.4	1209.6
5°	1224.3	1211.0	1214.9	1210.6	1208.6
7.5°	1214.9	1201.7	1205.6	1201.4	1200.2
10°	1206.5	1194.2	1198.1	1193.8	1191.8
12.5°	1197.2	1184.1	1188.9	1183.8	1181.7
15°	1178.1	1165.8	1170.8	1166.6	1164.5
17.5°	1157.2	1144.0	1149.0	1144.1	1141.4
20°	1140.4	1128.1	1133.0	1125.7	1124.6
22.5°	1121.9	1109.6	1114.6	1104.7	1104.5
25°	1092.1	1078.8	1084.8	1073.2	1072.2
27.5°	1056.7	1044.4	1049.3	1037.5	1036.3
30°	1032.3	1020.0	1025.0	1012.3	1010.3
32.5°	1004.6	993.1	997.3	984.7	983.4
35°	962.0	950.7	953.6	941.0	940.0
37.5°	913.6	903.3	905.0	891.1	890.1
40°	879.2	868.9	869.7	855.0	854.0
42.5°	841.4	831.1	830.3	815.6	814.5
45°	778.4	768.2	764.8	751.1	749.1
47.5°	706.7	696.4	690.1	679.0	677.5
50°	654.6	644.4	638.9	629.4	626.3
52.5°	598.4	588.2	583.5	574.8	571.8
55°	509.9	501.7	498.3	489.9	487.8
57.5°	425.7	420.2	419.2	411.0	410.2
60°	374.5	371.5	371.4	364.0	364.0
62.5°	330.9	328.6	330.3	325.4	324.6
65°	273.8	271.8	274.9	272.8	272.8
67.5°	228.7	228.7	230.6	229.8	229.8
70°	203.5	203.5	204.6	204.6	204.6
72.5°	180.9	180.0	182.8	182.7	181.9
75°	147.9	147.9	147.9	149.0	149.0
77.5°	115.2	115.4	116.2	116.0	115.2
80°	93.4	94.4	94.4	93.4	93.4
82.5°	71.5	72.6	72.6	72.4	71.5
85°	37.8	39.8	42.0	42.0	42.0
87.5°	10.9	14.2	16.8	16.8	15.9
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: P562001

CATALOG NUMBER: SQ4-PR1-100U-075D-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)