

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: P564294

Luminaire Tested: **SQ4-PR1-100U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564294
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-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

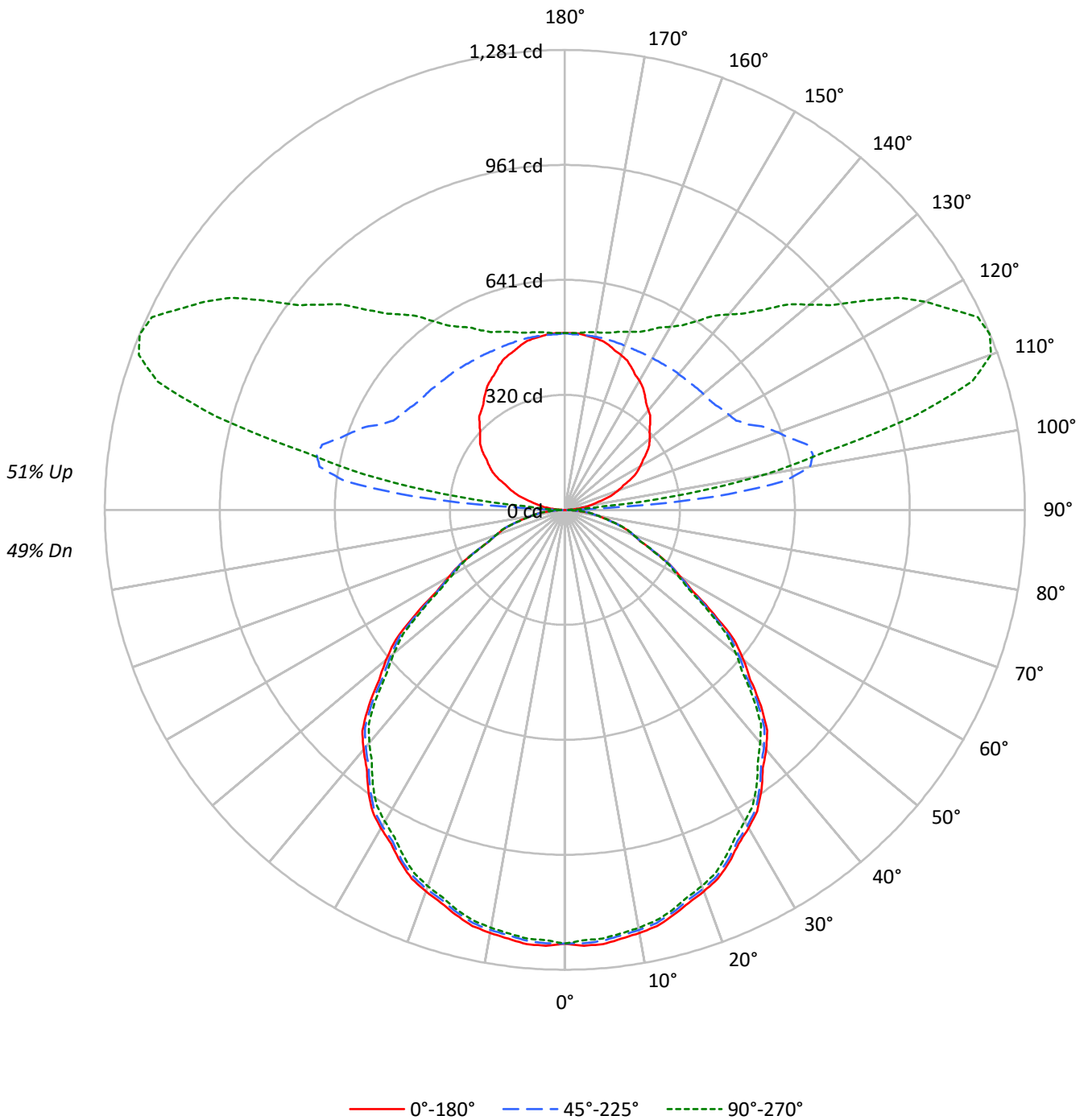
Lumens per Lamp: N/A
Luminaire Lumens: 6216.8 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 57.9
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35				
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26				
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23				
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16				
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14				
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11145	11145	11145
5°	11245	11159	11101
10°	11209	11132	11074
15°	11160	11091	11031
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10829	10675
35°	10746	10653	10501
40°	10501	10388	10200
45°	10073	9897	9693
50°	9320	9094	8916
55°	8134	7949	7782
60°	6853	6796	6661
65°	5929	5951	5905
70°	5446	5473	5473
75°	5229	5229	5265
80°	4920	4973	4920
85°	3970	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	1.8
10°-20°	326.8	5.3
20°-30°	493.0	7.9
30°-40°	587.4	9.4
40°-50°	579.1	9.3
50°-60°	442.6	7.1
60°-70°	273.9	4.4
70°-80°	155.5	2.5
80°-90°	48.3	0.8
90°-100°	230.4	3.7
100°-110°	635.9	10.2
110°-120°	655.9	10.5
120°-130°	527.0	8.5
130°-140°	414.2	6.7
140°-150°	317.7	5.1
150°-160°	228.3	3.7
160°-170°	139.6	2.2
170°-180°	47.1	0.8
0°-30°	934.0	15.0
0°-40°	1521.4	24.5
0°-60°	2543.1	40.9
0°-90°	3020.8	48.6
90°-120°	1522.1	24.5
90°-150°	2781.0	44.7
90°-180°	3196.0	51.4
0°-180°	6216.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1214	1201	1205	1201	1199	115
15°	1168	1156	1161	1157	1155	330
25°	1083	1070	1076	1064	1063	498
35°	954	943	946	933	932	595
45°	772	762	758	745	743	591
55°	506	498	494	486	484	453
65°	272	270	273	270	270	275
75°	147	147	147	148	148	155
85°	38	40	42	42	42	44
90°	2	3	6	7	8	4
95°	34	125	418	172	112	36
105°	113	175	700	1068	1006	121
115°	203	245	564	1116	1269	200
125°	279	317	511	864	1014	248
135°	335	371	497	700	789	259
145°	389	416	490	596	641	243
155°	438	453	486	535	552	202
165°	475	481	489	508	512	134
175°	492	493	490	497	495	47
180°	492	492	492	492	492	

TEST NUMBER: P564294

CATALOG NUMBER: SQ4-PR1-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1215.5	1204.9	1208.0	1205.4	1199.7
5°	1214.2	1201.0	1204.9	1200.7	1198.6
7.5°	1204.9	1191.8	1195.7	1191.5	1190.3
10°	1196.5	1184.3	1188.2	1184.0	1182.0
12.5°	1187.4	1174.4	1179.1	1174.0	1172.0
15°	1168.4	1156.2	1161.2	1157.0	1154.9
17.5°	1147.6	1134.6	1139.5	1134.7	1132.0
20°	1131.0	1118.8	1123.7	1116.4	1115.4
22.5°	1112.7	1100.5	1105.4	1095.6	1095.4
25°	1083.1	1069.9	1075.8	1064.4	1063.4
27.5°	1048.0	1035.8	1040.7	1029.0	1027.8
30°	1023.8	1011.6	1016.5	1004.0	1002.0
32.5°	996.4	985.0	989.1	976.6	975.3
35°	954.1	942.9	945.8	933.3	932.3
37.5°	906.0	895.9	897.5	883.8	882.7
40°	871.9	861.7	862.5	848.0	846.9
42.5°	834.5	824.3	823.4	808.8	807.8
45°	772.0	761.9	758.5	744.9	742.9
47.5°	700.9	690.7	684.4	673.4	671.9
50°	649.3	639.1	633.6	624.2	621.2
52.5°	593.5	583.3	578.7	570.1	567.1
55°	505.7	497.5	494.2	485.9	483.8
57.5°	422.2	416.7	415.8	407.6	406.8
60°	371.4	368.4	368.3	361.0	361.0
62.5°	328.2	325.9	327.5	322.7	321.9
65°	271.6	269.5	272.6	270.5	270.5
67.5°	226.8	226.8	228.7	227.9	227.9
70°	201.9	201.9	202.9	202.9	202.9
72.5°	179.4	178.6	181.2	181.2	180.4
75°	146.7	146.7	146.7	147.7	147.7
77.5°	114.2	114.4	115.3	115.1	114.2
80°	92.6	93.6	93.6	92.6	92.6
82.5°	71.0	72.0	72.0	71.8	71.0
85°	37.5	39.5	41.6	41.6	41.6
87.5°	11.1	14.7	17.9	18.0	17.4
90°	1.6	3.1	6.3	7.1	7.9
92.5°	14.2	58.8	105.1	38.4	29.9
95°	33.8	124.6	417.9	171.8	111.8
97.5°	56.0	139.6	619.1	476.6	345.2
100°	72.4	148.6	693.4	698.3	567.4
102.5°	88.1	158.8	707.8	862.7	738.7
105°	113.3	174.9	699.7	1068.1	1005.8
107.5°	140.1	194.9	660.6	1167.2	1190.0
110°	159.0	208.2	630.4	1188.5	1262.4



TEST NUMBER: P564294

CATALOG NUMBER: SQ4-PR1-100U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.0	223.4	602.1	1171.7	1280.6
115°	203.0	245.4	563.5	1115.5	1268.7
117.5°	226.7	268.8	538.2	1036.5	1210.7
120°	242.4	284.0	528.1	983.0	1158.5
122.5°	257.5	297.2	519.9	933.1	1099.3
125°	278.6	317.1	510.8	864.4	1014.5
127.5°	296.5	335.0	505.4	806.3	935.8
130°	308.5	347.0	502.9	770.8	888.5
132.5°	319.8	356.5	500.4	741.0	847.6
135°	335.3	371.4	496.6	700.1	789.4
137.5°	352.6	385.5	494.7	665.8	742.0
140°	362.0	394.3	493.5	642.9	709.9
142.5°	372.7	402.6	492.2	622.6	681.6
145°	388.8	415.7	490.3	596.0	641.4
147.5°	404.2	427.8	488.6	573.6	608.8
150°	415.5	434.8	487.9	560.2	588.7
152.5°	424.4	442.4	487.3	548.8	572.3
155°	438.4	453.0	486.4	534.8	551.7
157.5°	451.3	462.5	486.5	524.6	536.1
160°	458.8	468.8	487.2	518.8	527.3
162.5°	465.1	473.9	487.8	513.8	520.4
165°	474.6	480.7	488.7	507.7	511.6
167.5°	481.8	485.5	489.5	504.0	505.3
170°	485.6	488.7	489.5	502.1	502.1
172.5°	488.7	490.6	489.5	499.6	499.0
175°	491.9	492.7	489.5	496.6	495.0
177.5°	493.1	492.5	489.4	493.7	492.5
180°	491.9	491.9	491.9	491.9	491.9

(END OF REPORT)