

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: P563910

Luminaire Tested: **SQ4-PR1-025U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563910
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

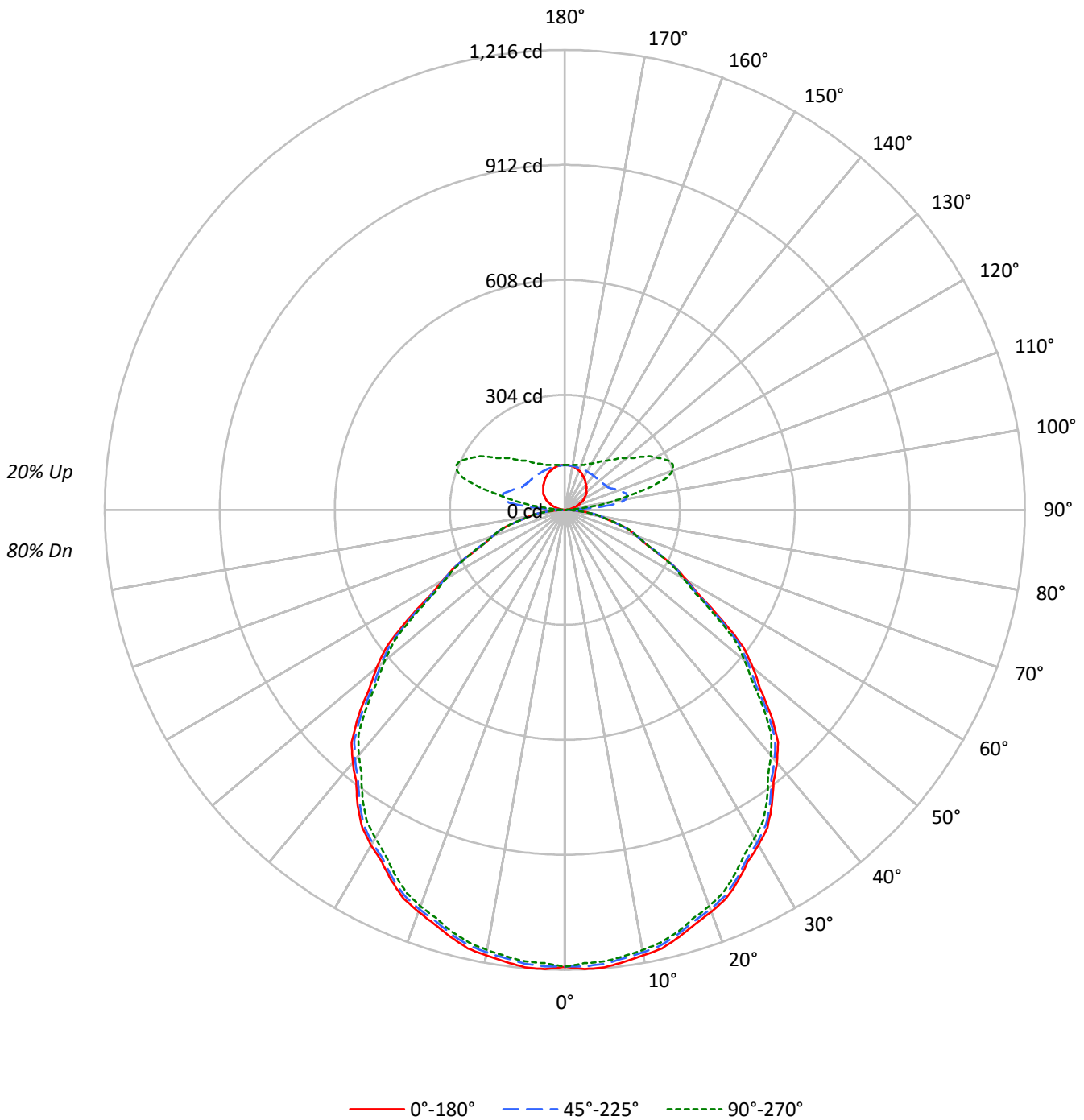
Lumens per Lamp: N/A
Luminaire Lumens: 3789.1 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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



TEST NUMBER: P563910
CATALOG NUMBER: SQ4-PR1-025U-100D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563910

CATALOG NUMBER: SQ4-PR1-025U-100D-930-1D-UNV-STD-W-4

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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

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



TEST NUMBER: P563910

CATALOG NUMBER: SQ4-PR1-025U-100D-930-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.0
10°-20°	326.8	8.6
20°-30°	493.0	13.0
30°-40°	587.4	15.5
40°-50°	579.1	15.3
50°-60°	442.6	11.7
60°-70°	273.9	7.2
70°-80°	155.5	4.1
80°-90°	48.0	1.3
90°-100°	57.8	1.5
100°-110°	151.9	4.0
110°-120°	157.6	4.2
120°-130°	126.4	3.3
130°-140°	99.2	2.6
140°-150°	76.1	2.0
150°-160°	54.8	1.4
160°-170°	33.5	0.9
170°-180°	11.3	0.3
0°-30°	934.0	24.7
0°-40°	1521.4	40.2
0°-60°	2543.1	67.1
0°-90°	3020.4	79.7
90°-120°	367.3	9.7
90°-150°	669.0	17.7
90°-180°	769.0	20.3
0°-180°	3789.1	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°	1	2	6	3	3	2
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

TEST NUMBER: P563910

CATALOG NUMBER: SQ4-PR1-025U-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°	11.0	14.5	17.9	17.2	16.4
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

TEST NUMBER: P563910

CATALOG NUMBER: SQ4-PR1-025U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)