

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: P562367

Luminaire Tested: **SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562367
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-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

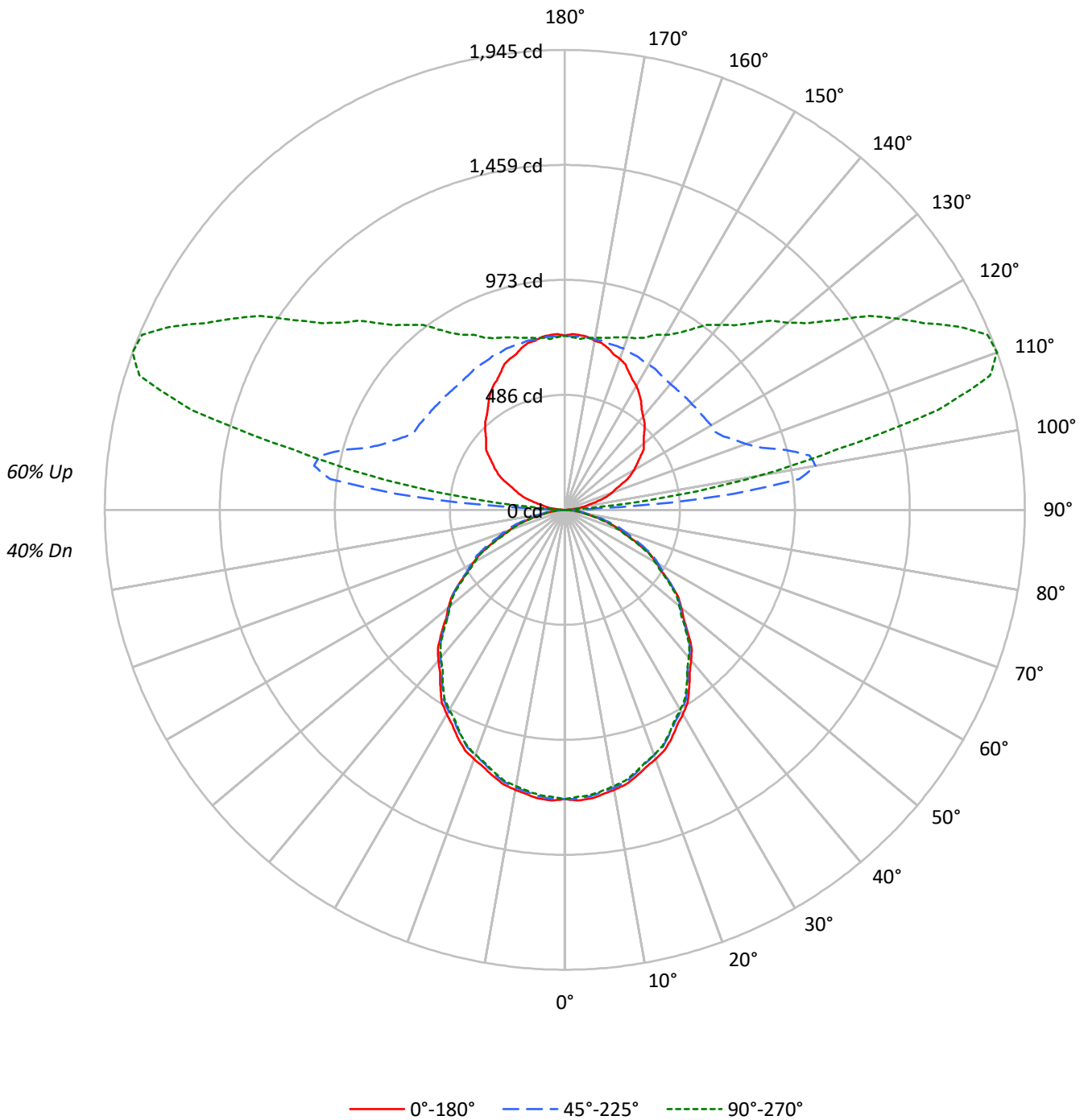
Lumens per Lamp: N/A
Luminaire Lumens: 7686.9 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.1
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: P562367
CATALOG NUMBER: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P562367

CATALOG NUMBER: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (5000K)

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	40
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	24
4	73	62	54	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	21	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	23	20	23	20	17	19	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11286	11286	11286
5°	11360	11270	11220
10°	11269	11179	11118
15°	11150	11026	10984
20°	11016	10847	10826
25°	10863	10666	10632
30°	10633	10472	10403
35°	10331	10185	10124
40°	10009	9853	9813
45°	9619	9492	9451
50°	9221	9143	9081
55°	8791	8791	8651
60°	8254	8412	8115
65°	7554	7929	7366
70°	6658	7297	6485
75°	5686	6531	5532
80°	4410	5499	4468
85°	2848	4224	3769



TEST NUMBER: P562367

CATALOG NUMBER: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	1.5
10°-20°	325.2	4.2
20°-30°	482.4	6.3
30°-40°	564.5	7.3
40°-50°	562.0	7.3
50°-60°	485.3	6.3
60°-70°	349.3	4.5
70°-80°	183.2	2.4
80°-90°	45.4	0.6
90°-100°	335.6	4.4
100°-110°	954.8	12.4
110°-120°	914.8	11.9
120°-130°	724.0	9.4
130°-140°	581.1	7.6
140°-150°	455.0	5.9
150°-160°	332.9	4.3
160°-170°	206.2	2.7
170°-180°	70.0	0.9
0°-30°	922.9	12.0
0°-40°	1487.3	19.3
0°-60°	2534.6	33.0
0°-90°	3112.5	40.5
90°-120°	2205.2	28.7
90°-150°	3965.3	51.6
90°-180°	4574.0	59.5
0°-180°	7686.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1227	1213	1217	1214	1212	116
15°	1167	1152	1154	1152	1150	329
25°	1067	1049	1048	1041	1044	491
35°	917	905	904	896	899	573
45°	737	731	728	725	724	569
55°	546	545	546	539	538	488
65°	346	356	363	349	337	343
75°	160	174	183	171	155	171
85°	27	35	40	38	36	36
90°	0	0	0	0	0	2
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	



TEST NUMBER: P562367

CATALOG NUMBER: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1230.2	1220.1	1223.3	1220.6	1214.7
5°	1226.6	1212.9	1216.9	1213.6	1211.5
7.5°	1214.1	1201.4	1204.4	1200.9	1199.6
10°	1202.9	1190.2	1193.2	1188.8	1186.7
12.5°	1189.9	1176.4	1179.4	1175.0	1173.8
15°	1167.3	1152.5	1154.4	1152.2	1150.0
17.5°	1141.0	1126.0	1126.3	1122.9	1122.5
20°	1122.0	1106.2	1104.8	1100.5	1102.6
22.5°	1101.3	1084.7	1083.2	1077.3	1080.2
25°	1067.1	1049.1	1047.7	1041.3	1044.4
27.5°	1027.4	1009.7	1009.7	1000.7	1004.1
30°	998.1	981.2	983.0	972.3	976.5
32.5°	967.0	951.9	952.8	942.1	946.3
35°	917.2	904.6	904.3	895.7	898.9
37.5°	866.4	855.2	853.4	848.5	849.3
40°	831.0	821.5	818.1	814.8	814.8
42.5°	793.9	785.3	781.9	779.5	778.6
45°	737.2	730.9	727.5	725.4	724.3
47.5°	681.2	675.3	672.4	670.8	669.8
50°	642.4	638.2	637.0	633.7	632.7
52.5°	603.6	601.1	599.9	595.8	594.7
55°	546.5	545.4	546.5	538.9	537.8
57.5°	487.0	488.6	492.1	481.9	479.4
60°	447.3	451.5	455.9	444.0	439.8
62.5°	406.8	413.5	419.7	406.0	400.1
65°	346.0	356.5	363.2	349.0	337.4
67.5°	287.3	300.4	308.5	293.1	280.0
70°	246.8	261.6	270.5	255.1	240.4
72.5°	211.5	227.9	235.2	220.6	205.9
75°	159.5	174.3	183.2	171.0	155.2
77.5°	113.2	127.1	134.5	123.9	110.8
80°	83.0	97.7	103.5	94.6	84.1
82.5°	58.8	71.1	75.0	69.7	62.5
85°	26.9	35.4	39.9	37.7	35.6
87.5°	6.9	12.8	16.4	16.4	17.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6



TEST NUMBER: P562367

CATALOG NUMBER: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)