

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: P562018

Luminaire Tested: **SQ4-PR1-100U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562018
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-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8894.0 lumens
Efficiency: N/A
Efficacy: 119.7 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

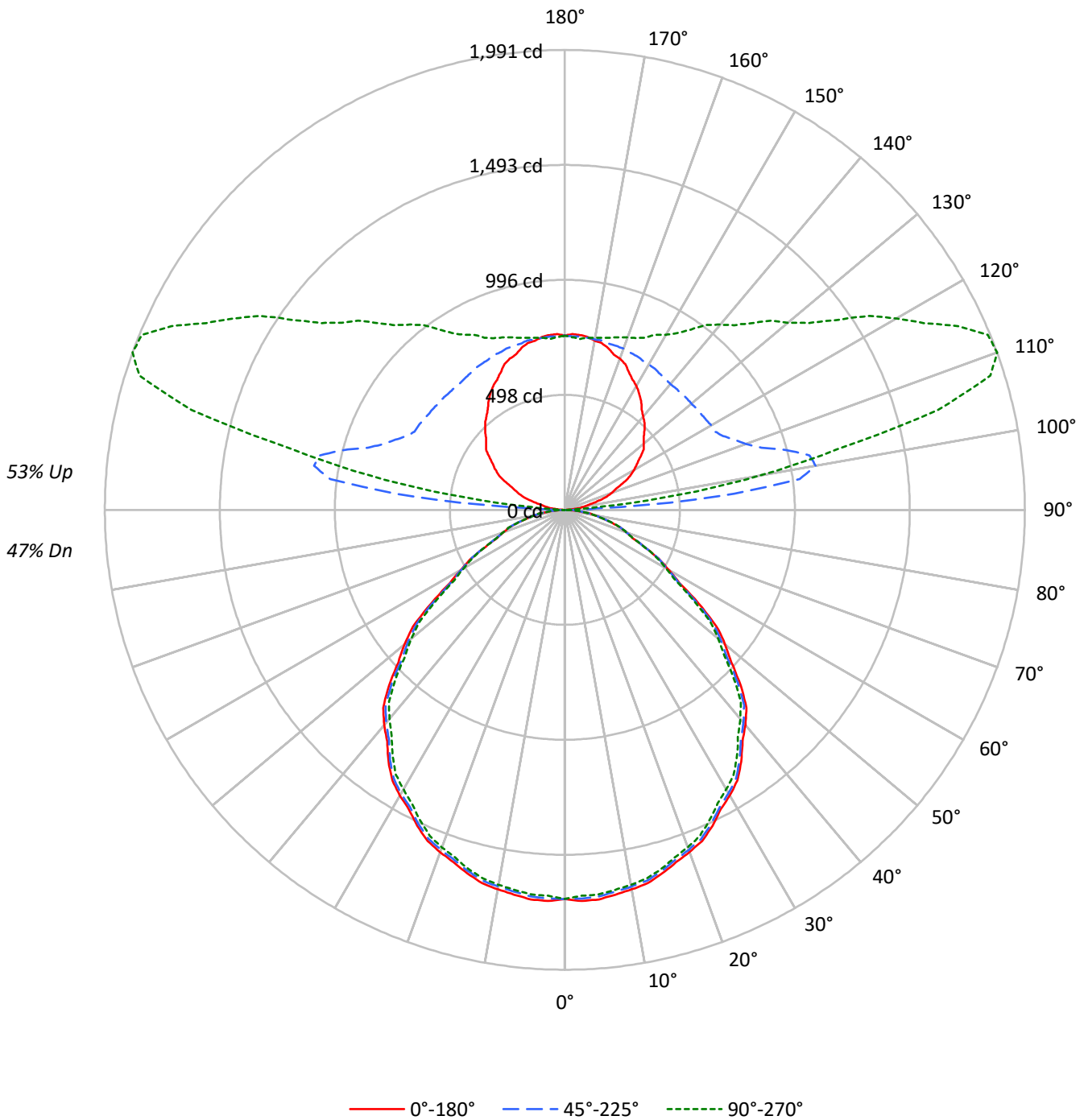
Input Watts (W): 74.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P562018

CATALOG NUMBER: SQ4-PR1-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

Luminous Intensity Polar Plot





TEST NUMBER: P562018

CATALOG NUMBER: SQ4-PR1-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

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	82	82	82	67	67	67	54	54	54	47				47
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46				40	
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	42	41	39				34	
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34				29	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	46	41	45	40	35	38	34	30	31	28	25				22	
6	63	51	43	38	58	48	40	35	41	35	31	34	30	27	28	25	22				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	25	22	20				17	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	23	20	18				16	
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	22	18	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15539	15539	15539
5°	15680	15558	15478
10°	15630	15521	15439
15°	15561	15464	15381
20°	15483	15382	15268
25°	15374	15270	15093
30°	15208	15099	14883
35°	14983	14853	14640
40°	14642	14484	14223
45°	14045	13799	13515
50°	12993	12681	12431
55°	11340	11084	10851
60°	9557	9475	9289
65°	8265	8298	8235
70°	7591	7631	7631
75°	7290	7290	7343
80°	6859	6939	6859
85°	5526	6140	6140



TEST NUMBER: P562018

CATALOG NUMBER: SQ4-PR1-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	1.8
10°-20°	455.7	5.1
20°-30°	687.3	7.7
30°-40°	819.0	9.2
40°-50°	807.4	9.1
50°-60°	617.1	6.9
60°-70°	381.9	4.3
70°-80°	216.9	2.4
80°-90°	66.0	0.7
90°-100°	343.6	3.9
100°-110°	977.6	11.0
110°-120°	936.6	10.5
120°-130°	741.3	8.3
130°-140°	595.0	6.7
140°-150°	465.8	5.2
150°-160°	340.8	3.8
160°-170°	211.1	2.4
170°-180°	71.6	0.8
0°-30°	1302.3	14.6
0°-40°	2121.2	23.9
0°-60°	3545.7	39.9
0°-90°	4210.4	47.3
90°-120°	2257.8	25.4
90°-150°	4059.9	45.6
90°-180°	4684.0	52.7
0°-180°	8894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1693	1674	1680	1674	1671	161
15°	1629	1612	1619	1613	1610	460
25°	1510	1492	1500	1484	1483	695
35°	1330	1315	1319	1301	1300	830
45°	1076	1062	1058	1039	1036	825
55°	705	694	689	677	675	632
65°	379	376	380	377	377	384
75°	204	204	204	206	206	216
85°	52	55	58	58	58	61
90°	0	0	0	0	0	4
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	



TEST NUMBER: P562018

CATALOG NUMBER: SQ4-PR1-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1684.2	1684.2	1684.2	1684.2	1684.2
2.5°	1694.7	1679.9	1684.2	1680.6	1672.6
5°	1693.0	1674.5	1679.9	1674.0	1671.2
7.5°	1679.9	1661.7	1667.1	1661.3	1659.6
10°	1668.3	1651.3	1656.7	1650.8	1648.0
12.5°	1655.5	1637.4	1643.9	1636.9	1634.1
15°	1629.1	1612.1	1619.0	1613.1	1610.3
17.5°	1600.1	1582.0	1588.8	1582.0	1578.3
20°	1576.9	1559.9	1566.7	1556.6	1555.1
22.5°	1551.4	1534.3	1541.2	1527.6	1527.3
25°	1510.2	1491.7	1500.0	1484.0	1482.6
27.5°	1461.1	1444.1	1451.0	1434.7	1433.0
30°	1427.5	1410.5	1417.3	1399.8	1397.0
32.5°	1389.2	1373.3	1379.0	1361.6	1359.9
35°	1330.3	1314.7	1318.7	1301.2	1299.8
37.5°	1263.3	1249.1	1251.4	1232.2	1230.8
40°	1215.7	1201.5	1202.6	1182.3	1180.9
42.5°	1163.5	1149.3	1148.1	1127.7	1126.3
45°	1076.4	1062.2	1057.6	1038.6	1035.8
47.5°	977.2	963.0	954.3	938.8	936.9
50°	905.2	891.0	883.5	870.3	866.1
52.5°	827.5	813.3	806.9	794.9	790.6
55°	705.0	693.7	689.1	677.4	674.6
57.5°	588.7	581.0	579.7	568.4	567.2
60°	517.9	513.6	513.5	503.4	503.4
62.5°	457.5	454.4	456.7	450.0	448.8
65°	378.6	375.8	380.1	377.2	377.2
67.5°	316.3	316.3	318.9	317.7	317.7
70°	281.4	281.4	282.9	282.9	282.9
72.5°	250.1	249.0	252.7	252.7	251.5
75°	204.5	204.5	204.5	206.0	206.0
77.5°	159.3	159.6	160.7	160.4	159.3
80°	129.1	130.5	130.6	129.1	129.1
82.5°	98.9	100.4	100.4	100.1	98.9
85°	52.2	55.1	58.0	58.0	58.0
87.5°	15.1	19.6	23.2	23.2	22.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

TEST NUMBER: P562018

CATALOG NUMBER: SQ4-PR1-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)