

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: P561962

Luminaire Tested: **SQ4-PR1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561962
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4002.7 lumens
Efficiency: N/A
Efficacy: 94.4 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: Direct

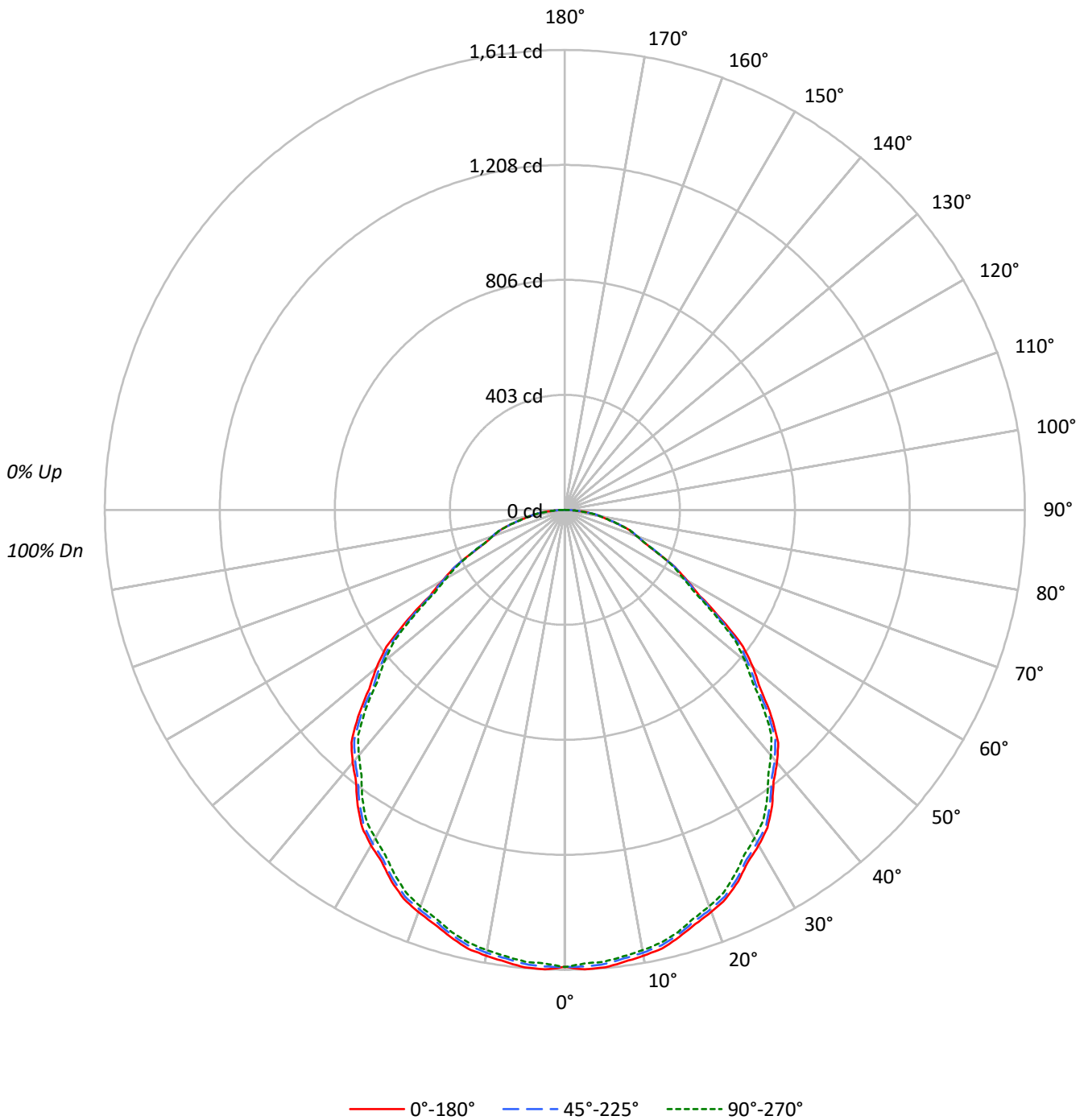
Input Watts (W): 42.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P561962

CATALOG NUMBER: SQ4-PR1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)

Luminous Intensity Polar Plot





TEST NUMBER: P561962

CATALOG NUMBER: SQ4-PR1-OU-100D-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14773	14773	14773
5°	14905	14791	14715
10°	14858	14755	14678
15°	14794	14701	14622
20°	14719	14624	14515
25°	14615	14517	14349
30°	14458	14355	14149
35°	14244	14119	13918
40°	13919	13770	13521
45°	13352	13118	12848
50°	12353	12055	11817
55°	10782	10538	10316
60°	9084	9008	8831
65°	7859	7888	7829
70°	7219	7254	7254
75°	6933	6933	6980
80°	6519	6594	6519
85°	5251	5843	5843



TEST NUMBER: P561962

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	3.8
10°-20°	433.2	10.8
20°-30°	653.4	16.3
30°-40°	778.5	19.5
40°-50°	767.6	19.2
50°-60°	586.6	14.7
60°-70°	363.0	9.1
70°-80°	206.2	5.2
80°-90°	62.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1238.0	30.9
0°-40°	2016.6	50.4
0°-60°	3370.8	84.2
0°-90°	4002.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4002.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1609	1592	1597	1592	1589	153
15°	1549	1533	1539	1534	1531	437
25°	1436	1418	1426	1411	1410	661
35°	1265	1250	1254	1237	1236	789
45°	1023	1010	1005	987	985	784
55°	670	660	655	644	641	601
65°	360	357	361	359	359	365
75°	194	194	194	196	196	205
85°	50	52	55	55	55	60
90°	0	0	0	0	0	



TEST NUMBER: P561962

CATALOG NUMBER: SQ4-PR1-0U-100D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.2	1601.2	1601.2	1601.2	1601.2
2.5°	1611.1	1597.1	1601.2	1597.7	1590.1
5°	1609.4	1591.9	1597.0	1591.5	1588.8
7.5°	1597.0	1579.8	1584.9	1579.3	1577.7
10°	1586.0	1569.8	1575.0	1569.4	1566.7
12.5°	1573.9	1556.6	1562.8	1556.1	1553.4
15°	1548.8	1532.6	1539.1	1533.5	1530.8
17.5°	1521.2	1503.9	1510.4	1504.0	1500.5
20°	1499.1	1482.9	1489.5	1479.8	1478.4
22.5°	1474.8	1458.7	1465.2	1452.2	1451.9
25°	1435.7	1418.1	1426.0	1410.8	1409.5
27.5°	1389.1	1372.9	1379.4	1363.9	1362.3
30°	1357.1	1340.9	1347.4	1330.8	1328.1
32.5°	1320.7	1305.5	1311.0	1294.4	1292.8
35°	1264.7	1249.8	1253.6	1237.0	1235.7
37.5°	1200.9	1187.5	1189.6	1171.4	1170.1
40°	1155.7	1142.2	1143.3	1124.0	1122.6
42.5°	1106.1	1092.6	1091.4	1072.1	1070.8
45°	1023.3	1009.8	1005.4	987.4	984.7
47.5°	929.0	915.5	907.2	892.5	890.6
50°	860.6	847.1	839.9	827.4	823.3
52.5°	786.7	773.2	767.1	755.7	751.6
55°	670.3	659.5	655.1	644.0	641.3
57.5°	559.6	552.4	551.1	540.3	539.2
60°	492.3	488.3	488.2	478.6	478.6
62.5°	435.0	432.0	434.1	427.8	426.7
65°	360.0	357.3	361.3	358.6	358.6
67.5°	300.6	300.6	303.1	302.0	302.0
70°	267.6	267.6	268.9	268.9	268.9
72.5°	237.8	236.7	240.2	240.2	239.1
75°	194.5	194.5	194.5	195.8	195.8
77.5°	151.4	151.7	152.8	152.5	151.4
80°	122.7	124.1	124.1	122.7	122.7
82.5°	94.1	95.4	95.4	95.1	94.1
85°	49.6	52.3	55.2	55.2	55.2
87.5°	14.3	18.7	22.1	22.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)