

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: P561857

Luminaire Tested: **SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561857
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-PR1-050U-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

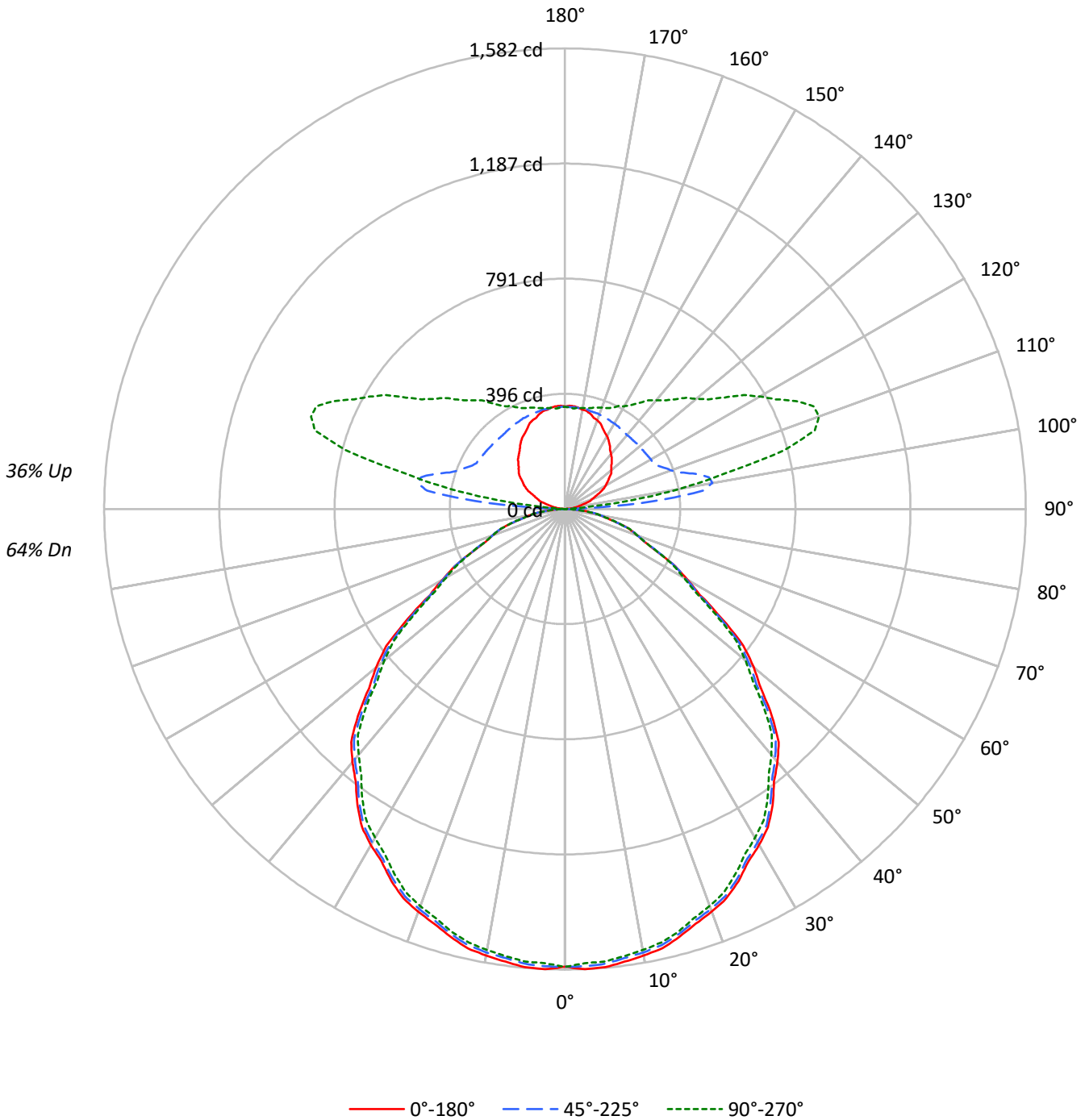
Lumens per Lamp: N/A
Luminaire Lumens: 6113.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.2
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: P561857
CATALOG NUMBER: SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P561857

CATALOG NUMBER: SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (3500K)

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	50	47
3	85	75	68	62	79	71	65	59	63	58	54	56	52	48	49	46	43	40
4	78	67	59	53	73	63	56	51	56	51	46	50	45	42	44	40	38	34
5	72	60	52	46	67	57	49	44	51	45	40	45	40	36	40	36	33	30
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29	27
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26	24
8	57	44	37	31	53	42	35	30	38	32	28	34	29	26	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14507	14507	14507
5°	14638	14525	14450
10°	14591	14490	14413
15°	14527	14437	14359
20°	14455	14361	14255
25°	14353	14256	14090
30°	14198	14097	13894
35°	13988	13866	13668
40°	13669	13523	13277
45°	13112	12882	12617
50°	12130	11839	11605
55°	10587	10348	10131
60°	8922	8846	8673
65°	7717	7746	7687
70°	7086	7124	7124
75°	6809	6809	6855
80°	6402	6477	6402
85°	5166	5738	5738



TEST NUMBER: P561857

CATALOG NUMBER: SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	2.4
10°-20°	425.4	7.0
20°-30°	641.7	10.5
30°-40°	764.6	12.5
40°-50°	753.8	12.3
50°-60°	576.1	9.4
60°-70°	356.5	5.8
70°-80°	202.5	3.3
80°-90°	61.6	1.0
90°-100°	160.1	2.6
100°-110°	455.6	7.5
110°-120°	436.5	7.1
120°-130°	345.5	5.7
130°-140°	277.3	4.5
140°-150°	217.1	3.6
150°-160°	158.8	2.6
160°-170°	98.4	1.6
170°-180°	33.4	0.5
0°-30°	1215.8	19.9
0°-40°	1980.4	32.4
0°-60°	3310.2	54.1
0°-90°	3930.8	64.3
90°-120°	1052.2	17.2
90°-150°	1892.1	30.9
90°-180°	2183.0	35.7
0°-180°	6113.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1572	1572	1572	1572	1572	
5°	1580	1563	1568	1563	1560	150
15°	1521	1505	1512	1506	1503	429
25°	1410	1393	1400	1386	1384	649
35°	1242	1227	1231	1215	1214	775
45°	1005	992	987	970	967	770
55°	658	648	643	632	630	590
65°	354	351	355	352	352	358
75°	191	191	191	192	192	202
85°	49	51	54	54	54	57
90°	0	0	0	0	0	3
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	



TEST NUMBER: P561857

CATALOG NUMBER: SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1572.4	1572.4	1572.4	1572.4	1572.4
2.5°	1582.2	1568.4	1572.4	1569.0	1561.6
5°	1580.5	1563.3	1568.3	1562.9	1560.2
7.5°	1568.3	1551.4	1556.4	1551.0	1549.4
10°	1557.5	1541.6	1546.7	1541.2	1538.5
12.5°	1545.6	1528.6	1534.7	1528.2	1525.5
15°	1520.9	1505.0	1511.5	1506.0	1503.3
17.5°	1493.8	1476.9	1483.3	1477.0	1473.5
20°	1472.2	1456.3	1462.7	1453.2	1451.9
22.5°	1448.3	1432.5	1438.9	1426.1	1425.9
25°	1409.9	1392.7	1400.4	1385.5	1384.1
27.5°	1364.1	1348.2	1354.6	1339.4	1337.8
30°	1332.7	1316.8	1323.2	1306.9	1304.2
32.5°	1296.9	1282.1	1287.4	1271.2	1269.6
35°	1241.9	1227.4	1231.1	1214.8	1213.5
37.5°	1179.4	1166.1	1168.3	1150.4	1149.0
40°	1134.9	1121.7	1122.8	1103.8	1102.4
42.5°	1086.2	1072.9	1071.8	1052.8	1051.5
45°	1004.9	991.7	987.3	969.7	967.0
47.5°	912.3	899.0	890.9	876.5	874.6
50°	845.1	831.9	824.8	812.5	808.5
52.5°	772.5	759.3	753.3	742.1	738.1
55°	658.2	647.6	643.3	632.4	629.8
57.5°	549.6	542.4	541.2	530.6	529.6
60°	483.5	479.5	479.4	470.0	470.0
62.5°	427.2	424.2	426.3	420.1	419.0
65°	353.5	350.8	354.8	352.1	352.1
67.5°	295.2	295.2	297.7	296.6	296.6
70°	262.7	262.7	264.1	264.1	264.1
72.5°	233.5	232.4	235.9	235.9	234.8
75°	191.0	191.0	191.0	192.3	192.3
77.5°	148.7	149.0	150.1	149.8	148.7
80°	120.5	121.9	121.9	120.5	120.5
82.5°	92.4	93.7	93.7	93.4	92.4
85°	48.8	51.4	54.2	54.2	54.2
87.5°	14.1	18.3	21.7	21.6	20.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

TEST NUMBER: P561857

CATALOG NUMBER: SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)