

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: P561858

Luminaire Tested: **SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561858
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

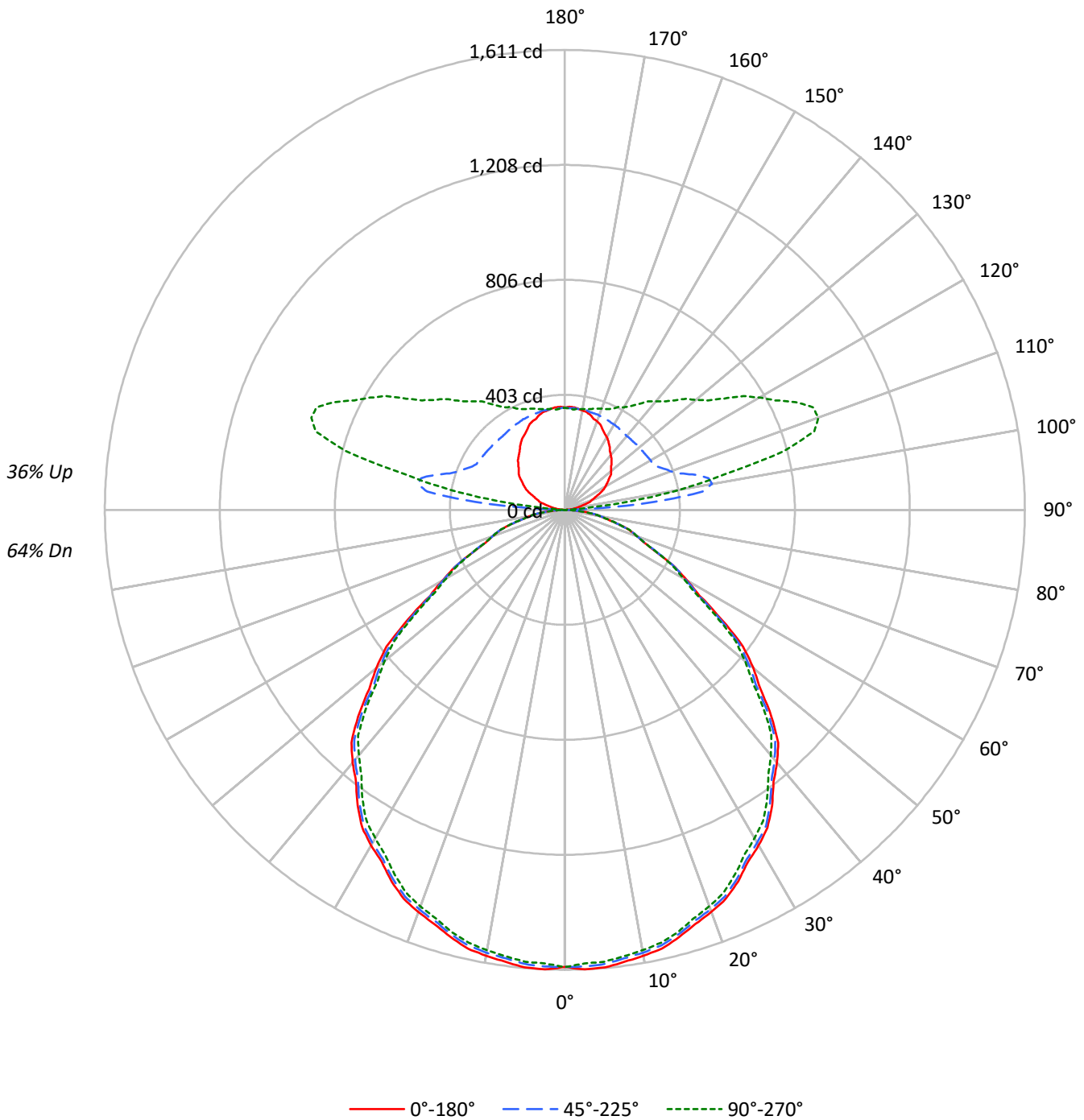
Lumens per Lamp: N/A
Luminaire Lumens: 6225.4 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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



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Luminous Intensity Polar Plot





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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	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°	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	2.4
10°-20°	433.2	7.0
20°-30°	653.4	10.5
30°-40°	778.5	12.5
40°-50°	767.6	12.3
50°-60°	586.6	9.4
60°-70°	363.0	5.8
70°-80°	206.2	3.3
80°-90°	62.7	1.0
90°-100°	163.0	2.6
100°-110°	463.9	7.5
110°-120°	444.5	7.1
120°-130°	351.8	5.7
130°-140°	282.4	4.5
140°-150°	221.1	3.6
150°-160°	161.8	2.6
160°-170°	100.2	1.6
170°-180°	34.0	0.5
0°-30°	1238.0	19.9
0°-40°	2016.6	32.4
0°-60°	3370.8	54.1
0°-90°	4002.7	64.3
90°-120°	1071.5	17.2
90°-150°	1926.7	30.9
90°-180°	2223.0	35.7
0°-180°	6225.4	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	58
90°	0	0	0	0	0	3
95°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	



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CATALOG NUMBER: SQ4-PR1-050U-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
92.5°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.7	144.4	376.2	822.4	940.0
115°	134.0	161.9	358.5	759.5	891.8
117.5°	151.0	177.2	348.0	690.7	830.9
120°	164.6	186.6	346.9	651.3	785.7
122.5°	175.5	197.5	344.2	616.8	741.6
125°	189.1	209.7	342.2	567.8	678.9
127.5°	203.9	223.2	341.1	538.5	630.1
130°	211.6	230.9	339.5	518.1	598.0
132.5°	219.7	238.5	339.5	502.2	575.6
135°	231.3	250.6	338.1	479.6	542.2
137.5°	242.2	260.9	338.0	460.5	514.6
140°	250.3	269.6	337.4	444.7	496.6
142.5°	259.6	275.7	339.0	432.1	478.6
145°	272.8	286.8	340.8	415.1	452.4
147.5°	284.1	297.6	343.8	398.0	430.2
150°	293.9	303.2	344.9	392.3	415.0
152.5°	301.5	311.3	346.0	384.7	405.7
155°	311.6	318.9	349.0	375.2	390.5
157.5°	324.1	328.5	349.7	370.9	381.8
160°	330.6	333.9	352.4	367.6	376.9
162.5°	334.4	338.3	352.9	364.8	372.0
165°	344.2	345.5	353.1	360.7	366.0
167.5°	350.9	349.7	356.2	359.6	361.8
170°	353.1	352.4	355.1	355.8	358.5
172.5°	358.0	355.7	356.7	354.7	356.9
175°	360.5	358.5	357.1	355.0	352.4
177.5°	361.6	358.4	356.7	354.6	355.1
180°	357.8	357.8	357.8	357.8	357.8

(END OF REPORT)