

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: P563323

Luminaire Tested: **SQ4-PP3-050U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563323
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

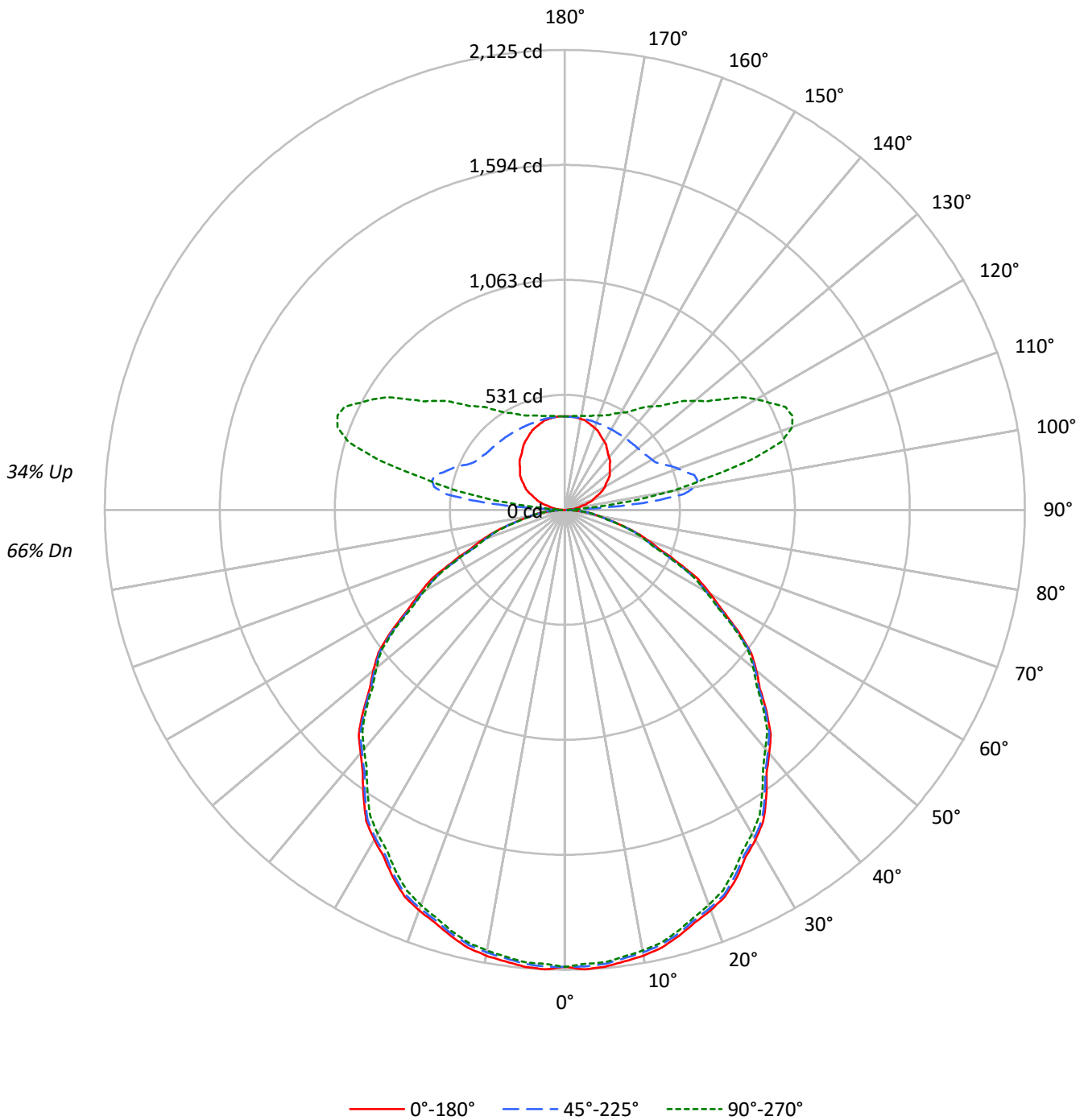
Lumens per Lamp: N/A
Luminaire Lumens: 8226.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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: P563323
CATALOG NUMBER: SQ4-PP3-050U-100D-830-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P563323

CATALOG NUMBER: SQ4-PP3-050U-100D-830-1D-UNV-STD-W-6

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	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13062	12970	12912
15°	12976	12905	12834
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12278
35°	12174	12091	11937
40°	11785	11710	11577
45°	11463	11382	11270
50°	11051	10980	10874
55°	10479	10341	10261
60°	9540	9267	9221
65°	8405	8054	8027
70°	7256	6956	6956
75°	6245	6157	6070
80°	5508	5572	5441
85°	4312	4700	4700



TEST NUMBER: P563323

CATALOG NUMBER: SQ4-PP3-050U-100D-830-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	2.4
10°-20°	570.2	6.9
20°-30°	854.1	10.4
30°-40°	1001.8	12.2
40°-50°	1004.9	12.2
50°-60°	857.2	10.4
60°-70°	559.1	6.8
70°-80°	280.5	3.4
80°-90°	79.3	1.0
90°-100°	207.4	2.5
100°-110°	563.3	6.8
110°-120°	579.1	7.0
120°-130°	463.0	5.6
130°-140°	363.8	4.4
140°-150°	279.0	3.4
150°-160°	200.6	2.4
160°-170°	122.7	1.5
170°-180°	41.3	0.5
0°-30°	1623.9	19.7
0°-40°	2625.7	31.9
0°-60°	4487.8	54.6
0°-90°	5406.6	65.7
90°-120°	1349.8	16.4
90°-150°	2455.6	29.8
90°-180°	2820.0	34.3
0°-180°	8226.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2119	2099	2106	2099	2099	201
15°	2038	2018	2027	2019	2016	575
25°	1877	1855	1864	1847	1845	863
35°	1621	1605	1610	1592	1590	1013
45°	1318	1309	1308	1296	1296	1015
55°	977	974	964	959	957	868
65°	578	567	553	550	552	576
75°	263	263	259	257	255	285
85°	61	66	67	67	67	72
90°	1	6	10	12	12	4
95°	31	113	361	157	106	32
105°	100	156	619	943	888	106
115°	178	216	496	986	1124	175
125°	244	278	449	756	892	218
135°	294	327	436	616	694	228
145°	340	365	430	523	562	214
155°	385	398	428	470	483	177
165°	417	422	429	447	449	118
175°	432	433	430	436	435	41
180°	432	432	432	432	432	



TEST NUMBER: P563323

CATALOG NUMBER: SQ4-PP3-050U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2111.8	2111.8	2111.8	2111.8	2111.8
2.5°	2125.1	2107.7	2111.8	2108.6	2099.9
5°	2119.2	2099.3	2106.2	2098.8	2098.8
7.5°	2104.7	2083.0	2089.9	2082.5	2082.2
10°	2091.4	2069.7	2076.6	2069.2	2067.4
12.5°	2072.2	2050.4	2058.8	2049.9	2049.6
15°	2037.7	2017.8	2026.6	2019.1	2015.5
17.5°	1998.9	1977.2	1987.8	1977.4	1975.9
20°	1969.3	1947.5	1958.2	1943.3	1943.3
22.5°	1933.7	1912.0	1924.1	1904.9	1904.9
25°	1876.7	1855.0	1863.8	1847.1	1845.3
27.5°	1809.0	1787.6	1796.8	1777.9	1777.5
30°	1760.1	1740.2	1750.9	1730.5	1728.7
32.5°	1706.8	1688.4	1696.1	1675.7	1673.9
35°	1621.3	1605.0	1610.2	1591.7	1589.8
37.5°	1531.4	1514.7	1520.6	1504.7	1504.0
40°	1467.7	1456.8	1458.4	1445.4	1441.8
42.5°	1408.5	1396.2	1397.7	1384.8	1384.0
45°	1317.8	1308.7	1308.5	1295.6	1295.6
47.5°	1221.5	1214.7	1212.6	1201.9	1201.5
50°	1154.9	1149.5	1147.5	1138.2	1136.4
52.5°	1085.3	1082.8	1076.4	1068.6	1068.3
55°	977.2	973.6	964.3	958.7	956.9
57.5°	859.9	852.6	842.1	834.0	835.5
60°	775.5	768.2	753.3	749.6	749.6
62.5°	694.1	685.4	670.4	665.2	668.1
65°	577.5	566.6	553.4	549.7	551.5
67.5°	471.6	461.8	447.5	447.5	446.0
70°	403.5	398.0	386.8	386.8	386.8
72.5°	342.8	340.2	332.0	332.0	330.6
75°	262.8	262.8	259.1	257.2	255.4
77.5°	196.9	197.6	195.8	193.9	190.6
80°	155.5	159.1	157.3	155.4	153.6
82.5°	117.0	120.6	120.3	117.0	116.6
85°	61.1	66.5	66.6	66.6	66.6
87.5°	16.6	23.2	25.6	26.2	27.7
90°	1.4	5.5	9.7	12.5	12.5
92.5°	12.5	56.8	98.6	42.4	35.8
95°	30.6	113.4	361.1	157.2	105.6
97.5°	50.6	125.2	553.6	430.7	302.5
100°	63.9	133.1	612.5	620.9	501.4
102.5°	77.2	141.0	628.0	767.9	662.5
105°	100.0	155.7	619.4	943.2	887.5
107.5°	123.6	172.8	583.6	1033.7	1049.1
110°	140.3	185.1	556.9	1051.5	1118.0

TEST NUMBER: P563323

CATALOG NUMBER: SQ4-PP3-050U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.7	197.4	530.3	1036.7	1136.9
115°	177.8	215.8	495.8	986.4	1123.6
117.5°	199.4	235.8	473.9	915.2	1069.7
120°	213.9	249.2	463.9	867.4	1020.8
122.5°	226.1	261.4	457.2	819.5	967.5
125°	244.4	278.4	448.6	755.8	891.6
127.5°	260.8	294.5	443.9	707.6	824.2
130°	270.8	303.4	441.7	677.4	781.9
132.5°	280.8	313.4	439.4	651.5	744.2
135°	294.4	327.0	436.1	615.7	694.4
137.5°	309.2	338.8	434.4	584.0	650.3
140°	318.0	346.6	433.3	563.8	623.6
142.5°	326.9	353.3	432.2	548.1	598.0
145°	340.3	364.7	430.5	523.1	562.5
147.5°	355.3	376.2	429.2	503.5	534.4
150°	365.3	382.9	429.2	492.2	516.7
152.5°	373.0	388.5	428.0	482.1	502.2
155°	384.7	398.3	427.8	469.7	483.3
157.5°	396.1	406.7	427.8	461.3	471.7
160°	402.8	412.3	427.8	455.7	463.9
162.5°	409.4	416.8	428.9	451.2	457.2
165°	416.7	422.1	429.2	447.2	448.6
167.5°	424.2	426.9	430.5	442.5	443.6
170°	426.4	429.1	430.5	440.3	440.3
172.5°	428.6	430.2	430.5	438.0	438.0
175°	431.9	433.3	430.5	436.1	434.7
177.5°	433.0	433.0	429.7	434.1	431.9
180°	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)