

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: P562668

Luminaire Tested: **SQ4-PC3-050U-100D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562668
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

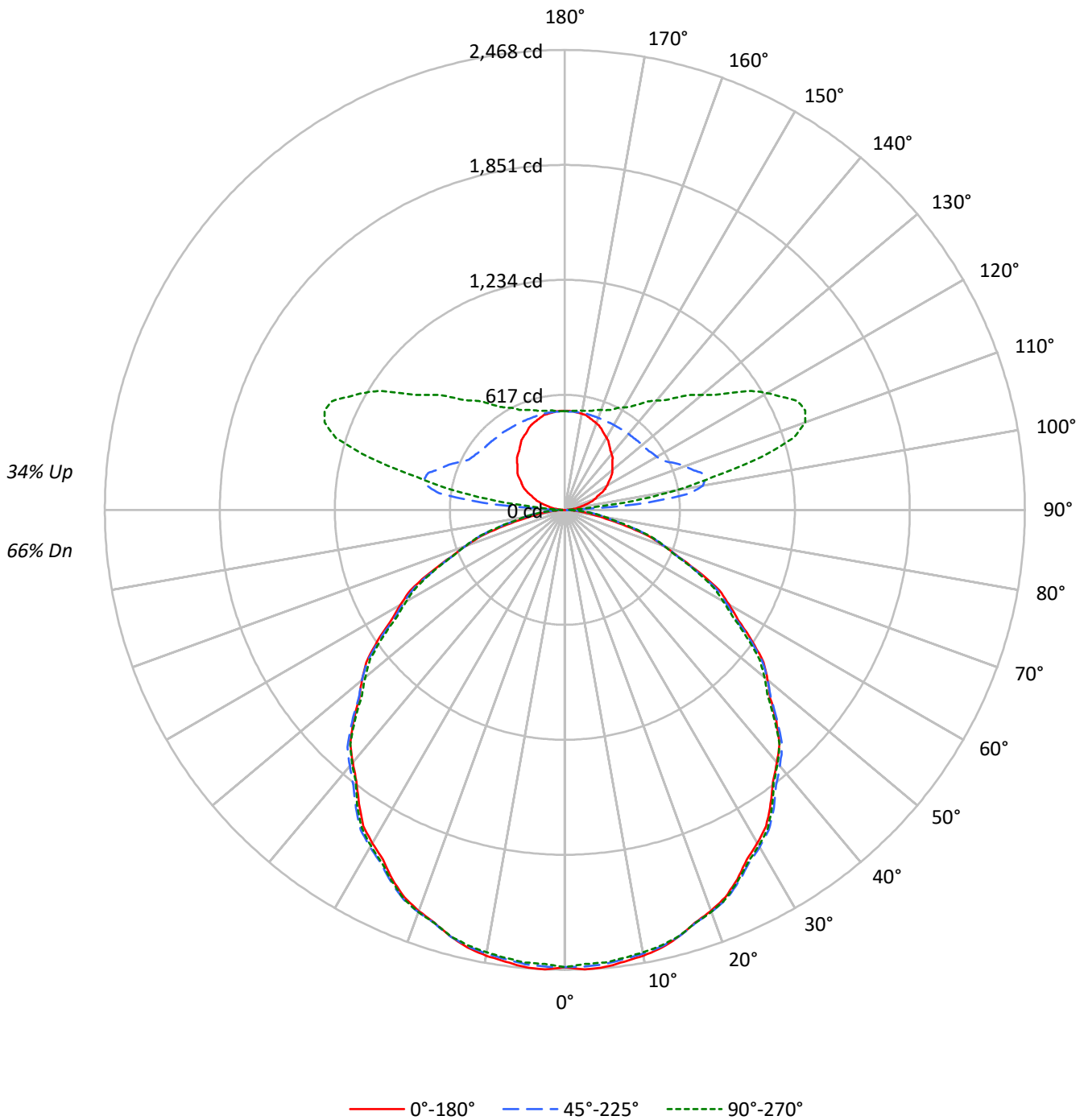
Lumens per Lamp: N/A
Luminaire Lumens: 10160.9 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 95.4
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



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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	0
RCR																		
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11137	11218	11184
30°	11002	11135	11087
35°	10838	11005	10928
40°	10659	10809	10700
45°	10466	10539	10376
50°	10192	10192	10029
55°	9868	9741	9594
60°	9391	9203	9056
65°	8681	8508	8432
70°	7600	7661	7631
75°	6115	6764	6803
80°	4346	5736	5794
85°	2646	4811	4811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	2.3
10°-20°	666.5	6.6
20°-30°	1009.3	9.9
30°-40°	1210.0	11.9
40°-50°	1233.8	12.1
50°-60°	1077.0	10.6
60°-70°	771.0	7.6
70°-80°	397.1	3.9
80°-90°	102.5	1.0
90°-100°	254.5	2.5
100°-110°	691.4	6.8
110°-120°	710.8	7.0
120°-130°	568.3	5.6
130°-140°	446.6	4.4
140°-150°	342.4	3.4
150°-160°	246.2	2.4
160°-170°	150.6	1.5
170°-180°	50.7	0.5
0°-30°	1908.0	18.8
0°-40°	3118.0	30.7
0°-60°	5428.7	53.4
0°-90°	6699.4	65.9
90°-120°	1656.7	16.3
90°-150°	3014.0	29.7
90°-180°	3462.0	34.1
0°-180°	10160.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2454	2454	2454	2454	2454	
5°	2463	2439	2447	2440	2438	234
15°	2370	2350	2370	2370	2368	668
25°	2188	2173	2204	2197	2197	1007
35°	1925	1920	1954	1940	1940	1204
45°	1604	1600	1616	1595	1590	1235
55°	1227	1211	1211	1193	1193	1094
65°	795	778	779	772	772	787
75°	343	359	380	382	382	371
85°	50	77	91	93	91	68
90°	2	7	12	15	15	5
95°	38	139	443	193	130	40
105°	123	191	760	1158	1089	130
115°	218	265	609	1211	1379	215
125°	300	342	551	928	1094	267
135°	361	401	535	756	852	279
145°	418	448	528	642	690	262
155°	472	489	525	577	593	218
165°	511	518	527	549	551	144
175°	530	532	528	535	534	50
180°	530	530	530	530	530	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2454.0	2454.0	2454.0	2454.0	2454.0
2.5°	2468.5	2447.2	2454.0	2448.3	2439.4
5°	2463.1	2438.6	2447.2	2440.3	2438.1
7.5°	2445.3	2420.9	2432.2	2427.6	2425.3
10°	2429.0	2404.5	2417.6	2413.0	2410.8
12.5°	2407.2	2384.5	2399.4	2394.9	2394.4
15°	2369.9	2349.9	2369.9	2369.9	2367.6
17.5°	2323.1	2304.9	2326.3	2327.6	2326.3
20°	2290.4	2270.4	2297.2	2295.0	2297.2
22.5°	2250.4	2233.9	2262.7	2256.8	2259.0
25°	2188.1	2172.6	2204.0	2197.2	2197.2
27.5°	2114.5	2103.4	2137.7	2130.4	2130.4
30°	2065.4	2054.3	2090.4	2081.3	2081.3
32.5°	2010.9	2003.3	2037.7	2026.8	2026.8
35°	1924.6	1920.1	1954.1	1940.5	1940.5
37.5°	1835.5	1831.5	1862.3	1845.8	1840.5
40°	1770.0	1767.8	1795.0	1776.9	1776.9
42.5°	1704.6	1702.4	1726.0	1704.1	1704.1
45°	1604.2	1599.7	1615.5	1595.0	1590.5
47.5°	1494.7	1490.2	1500.1	1477.8	1475.6
50°	1420.1	1415.7	1420.1	1399.6	1397.4
52.5°	1343.8	1335.8	1336.5	1316.0	1315.6
55°	1227.0	1211.4	1211.1	1192.9	1192.9
57.5°	1103.4	1082.9	1084.7	1069.2	1067.0
60°	1017.9	995.7	997.5	983.8	981.6
62.5°	934.3	908.6	913.9	898.4	898.0
65°	795.3	777.5	779.4	772.5	772.5
67.5°	661.7	645.2	657.1	651.7	651.2
70°	563.5	552.4	568.0	568.0	565.8
72.5°	472.6	472.2	491.7	491.7	493.1
75°	343.1	358.7	379.5	381.7	381.7
77.5°	229.0	256.6	279.5	280.4	279.9
80°	163.6	194.7	215.9	220.4	218.1
82.5°	110.9	143.8	161.3	165.8	163.6
85°	50.0	76.6	90.9	93.1	90.9
87.5°	14.9	31.9	38.7	39.3	35.8
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.7	121.0	52.0	44.0
95°	37.5	139.2	443.2	192.9	129.6
97.5°	62.1	153.7	679.5	528.6	371.3
100°	78.4	163.4	751.8	762.1	615.4
102.5°	94.8	173.1	770.9	942.5	813.1
105°	122.7	191.1	760.3	1157.6	1089.3
107.5°	151.7	212.1	716.3	1268.7	1287.7
110°	172.2	227.2	683.6	1290.6	1372.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	242.2	650.8	1272.4	1395.4
115°	218.2	264.9	608.6	1210.7	1379.1
117.5°	244.8	289.5	581.6	1123.3	1312.9
120°	262.5	305.9	569.4	1064.6	1252.9
122.5°	277.5	320.9	561.2	1005.8	1187.5
125°	300.0	341.7	550.6	927.7	1094.4
127.5°	320.1	361.5	544.8	868.5	1011.6
130°	332.4	372.4	542.1	831.4	959.7
132.5°	344.7	384.7	539.4	799.7	913.4
135°	361.4	401.4	535.3	755.7	852.3
137.5°	379.5	415.8	533.2	716.8	798.1
140°	390.4	425.4	531.9	692.1	765.4
142.5°	401.3	433.6	530.5	672.7	734.0
145°	417.6	447.6	528.4	642.1	690.4
147.5°	436.1	461.7	526.7	618.0	656.0
150°	448.3	470.0	526.7	604.1	634.1
152.5°	457.9	476.9	525.4	591.7	616.4
155°	472.2	488.9	525.0	576.6	593.2
157.5°	486.2	499.2	525.0	566.2	578.9
160°	494.4	506.0	525.0	559.4	569.4
162.5°	502.5	511.5	526.4	553.8	561.2
165°	511.4	518.1	526.7	548.9	550.6
167.5°	520.6	523.9	528.4	543.1	544.5
170°	523.3	526.7	528.4	540.4	540.4
172.5°	526.1	528.1	528.4	537.7	537.7
175°	530.2	531.8	528.4	535.2	533.6
177.5°	531.5	531.5	527.4	532.8	530.2
180°	530.2	530.2	530.2	530.2	530.2

(END OF REPORT)