

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: P563341

Luminaire Tested: **SQ4-PP3-050U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563341
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-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15069.4 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: 12' x H: 0')
CIE Type: Semi-Direct

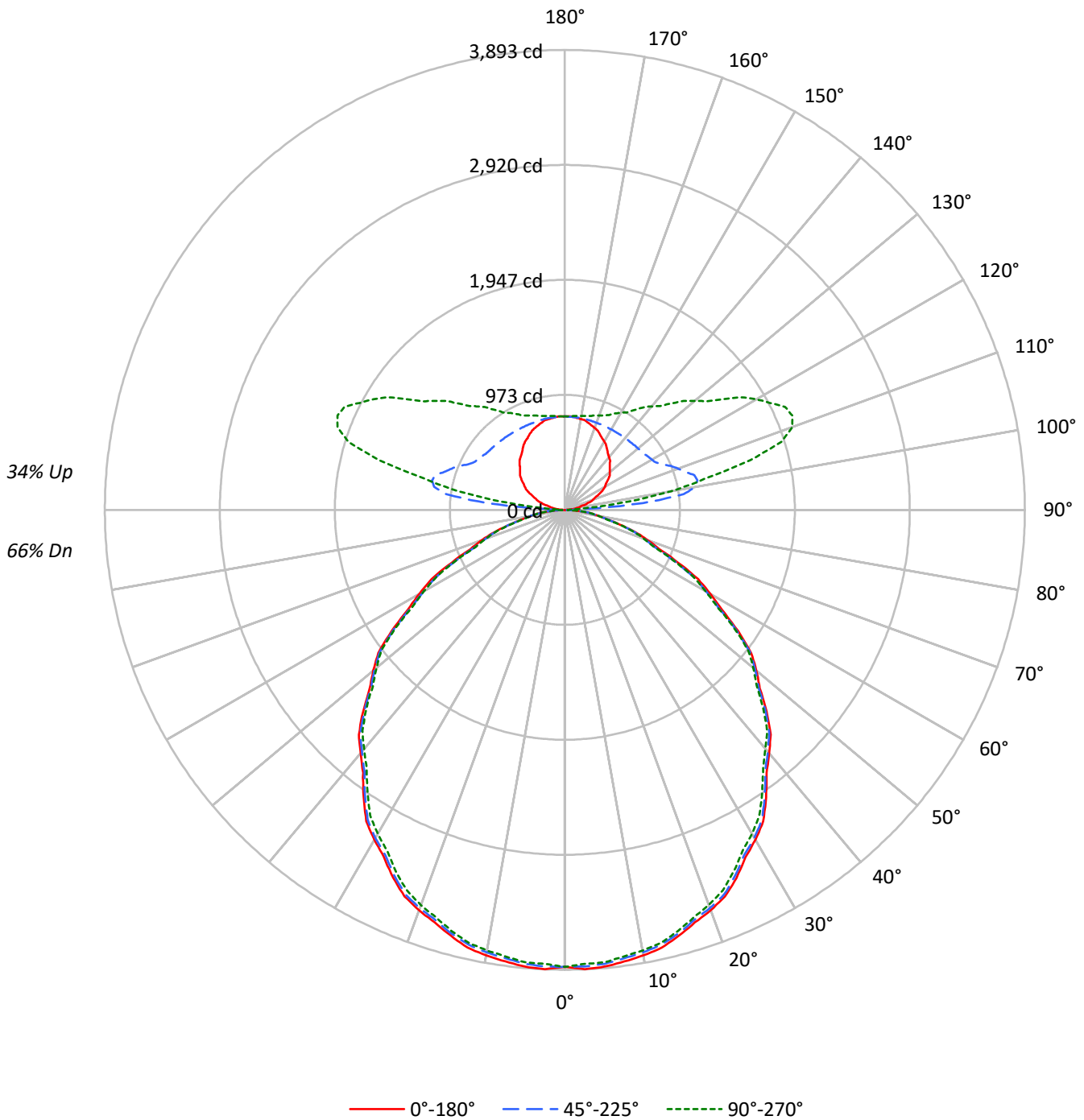
Input Watts (W): 134.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P563341

CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563341

CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-12

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°	11896	11896	11896
5°	11984	11910	11869
10°	11963	11879	11826
15°	11884	11820	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11244
35°	11150	11074	10933
40°	10793	10725	10603
45°	10498	10425	10321
50°	10122	10056	9959
55°	9598	9471	9398
60°	8737	8487	8445
65°	7697	7377	7352
70°	6646	6371	6371
75°	5720	5639	5559
80°	5044	5104	4984
85°	3949	4305	4305



TEST NUMBER: P563341

CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	2.4
10°-20°	1044.4	6.9
20°-30°	1564.4	10.4
30°-40°	1834.9	12.2
40°-50°	1840.7	12.2
50°-60°	1570.2	10.4
60°-70°	1024.1	6.8
70°-80°	513.8	3.4
80°-90°	145.2	1.0
90°-100°	379.8	2.5
100°-110°	1031.8	6.8
110°-120°	1060.8	7.0
120°-130°	848.2	5.6
130°-140°	666.4	4.4
140°-150°	511.0	3.4
150°-160°	367.5	2.4
160°-170°	224.7	1.5
170°-180°	75.7	0.5
0°-30°	2974.6	19.7
0°-40°	4809.5	31.9
0°-60°	8220.4	54.6
0°-90°	9903.5	65.7
90°-120°	2472.4	16.4
90°-150°	4498.0	29.8
90°-180°	5166.0	34.3
0°-180°	15069.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3868	3868	3868	3868	3868	
5°	3882	3845	3858	3844	3844	369
15°	3733	3696	3712	3698	3692	1053
25°	3438	3398	3414	3383	3380	1581
35°	2970	2940	2950	2916	2912	1855
45°	2414	2397	2397	2373	2373	1859
55°	1790	1783	1766	1756	1753	1591
65°	1058	1038	1014	1007	1010	1056
75°	481	481	475	471	468	522
85°	112	122	122	122	122	132
90°	2	10	18	23	23	8
95°	56	208	661	288	193	59
105°	183	285	1135	1728	1626	195
115°	326	395	908	1807	2058	321
125°	448	510	822	1384	1633	399
135°	539	599	799	1128	1272	417
145°	623	668	789	958	1030	391
155°	705	730	784	860	885	325
165°	763	773	786	819	822	215
175°	791	794	789	799	796	75
180°	791	791	791	791	791	

TEST NUMBER: P563341

CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3868.2	3868.2	3868.2	3868.2	3868.2
2.5°	3892.6	3860.8	3868.2	3862.4	3846.5
5°	3881.8	3845.3	3858.0	3844.5	3844.5
7.5°	3855.3	3815.5	3828.2	3814.6	3814.0
10°	3830.9	3791.1	3803.8	3790.2	3786.8
12.5°	3795.7	3755.9	3771.2	3755.0	3754.3
15°	3732.6	3696.1	3712.3	3698.5	3691.9
17.5°	3661.4	3621.6	3641.1	3622.0	3619.4
20°	3607.2	3567.4	3586.8	3559.7	3559.7
22.5°	3542.1	3502.3	3524.4	3489.2	3489.2
25°	3437.7	3397.9	3413.9	3383.3	3380.0
27.5°	3313.6	3274.5	3291.2	3256.6	3255.9
30°	3224.1	3187.6	3207.1	3169.8	3166.4
32.5°	3126.4	3092.6	3106.8	3069.4	3066.1
35°	2969.8	2940.0	2949.5	2915.5	2912.2
37.5°	2805.0	2774.5	2785.4	2756.2	2754.9
40°	2688.4	2668.5	2671.5	2647.6	2641.0
42.5°	2579.9	2557.4	2560.3	2536.5	2535.2
45°	2413.8	2397.2	2396.9	2373.1	2373.1
47.5°	2237.5	2224.9	2221.3	2201.6	2200.9
50°	2115.5	2105.5	2101.9	2084.9	2081.6
52.5°	1988.0	1983.4	1971.7	1957.5	1956.8
55°	1790.0	1783.4	1766.3	1756.0	1752.7
57.5°	1575.1	1561.8	1542.5	1527.7	1530.3
60°	1420.5	1407.2	1379.8	1373.0	1373.0
62.5°	1271.3	1255.4	1227.9	1218.6	1223.9
65°	1057.7	1037.9	1013.7	1007.0	1010.3
67.5°	863.8	845.9	819.7	819.7	817.0
70°	739.1	729.1	708.5	708.5	708.5
72.5°	627.9	623.2	608.2	608.1	605.5
75°	481.4	481.4	474.6	471.2	467.8
77.5°	360.7	362.0	358.7	355.2	349.2
80°	284.8	291.4	288.2	284.7	281.4
82.5°	214.3	220.9	220.4	214.2	213.6
85°	111.9	121.8	122.0	122.0	122.0
87.5°	30.3	42.4	47.0	48.0	50.7
90°	2.5	10.0	17.8	22.9	22.9
92.5°	22.9	104.0	180.6	77.6	65.6
95°	56.0	207.7	661.4	287.9	193.3
97.5°	92.6	229.4	1014.0	788.9	554.1
100°	117.0	243.9	1121.9	1137.3	918.4
102.5°	141.4	258.4	1150.4	1406.5	1213.5
105°	183.2	285.2	1134.6	1727.6	1625.6
107.5°	226.4	316.5	1069.0	1893.4	1921.8
110°	256.9	339.0	1020.2	1926.1	2047.9

TEST NUMBER: P563341

CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	361.5	971.3	1899.0	2082.5
115°	325.6	395.3	908.2	1806.9	2058.1
117.5°	365.3	432.0	868.0	1676.3	1959.4
120°	391.8	456.5	849.7	1588.8	1869.9
122.5°	414.2	478.8	837.5	1501.0	1772.2
125°	447.7	509.9	821.7	1384.5	1633.3
127.5°	477.8	539.5	813.1	1296.2	1509.6
130°	496.1	555.8	809.0	1240.8	1432.3
132.5°	514.4	574.1	804.9	1193.4	1363.1
135°	539.3	599.0	798.8	1127.7	1272.0
137.5°	566.3	620.5	795.8	1069.7	1191.1
140°	582.6	634.8	793.7	1032.8	1142.3
142.5°	598.9	647.1	791.7	1003.9	1095.5
145°	623.3	668.1	788.6	958.2	1030.3
147.5°	650.8	689.1	786.1	922.2	978.9
150°	669.1	701.4	786.1	901.6	946.4
152.5°	683.3	711.7	784.1	883.1	919.9
155°	704.7	729.6	783.6	860.4	885.3
157.5°	725.6	745.0	783.6	845.0	864.0
160°	737.8	755.2	783.6	834.8	849.7
162.5°	750.0	763.4	785.6	826.5	837.5
165°	763.2	773.2	786.1	819.2	821.7
167.5°	776.9	781.9	788.6	810.6	812.6
170°	781.0	786.0	788.6	806.5	806.5
172.5°	785.1	788.1	788.6	802.4	802.4
175°	791.2	793.7	788.6	798.8	796.3
177.5°	793.2	793.2	787.1	795.2	791.2
180°	791.2	791.2	791.2	791.2	791.2

(END OF REPORT)