

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: P562206

Luminaire Tested: **SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562206
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4934.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

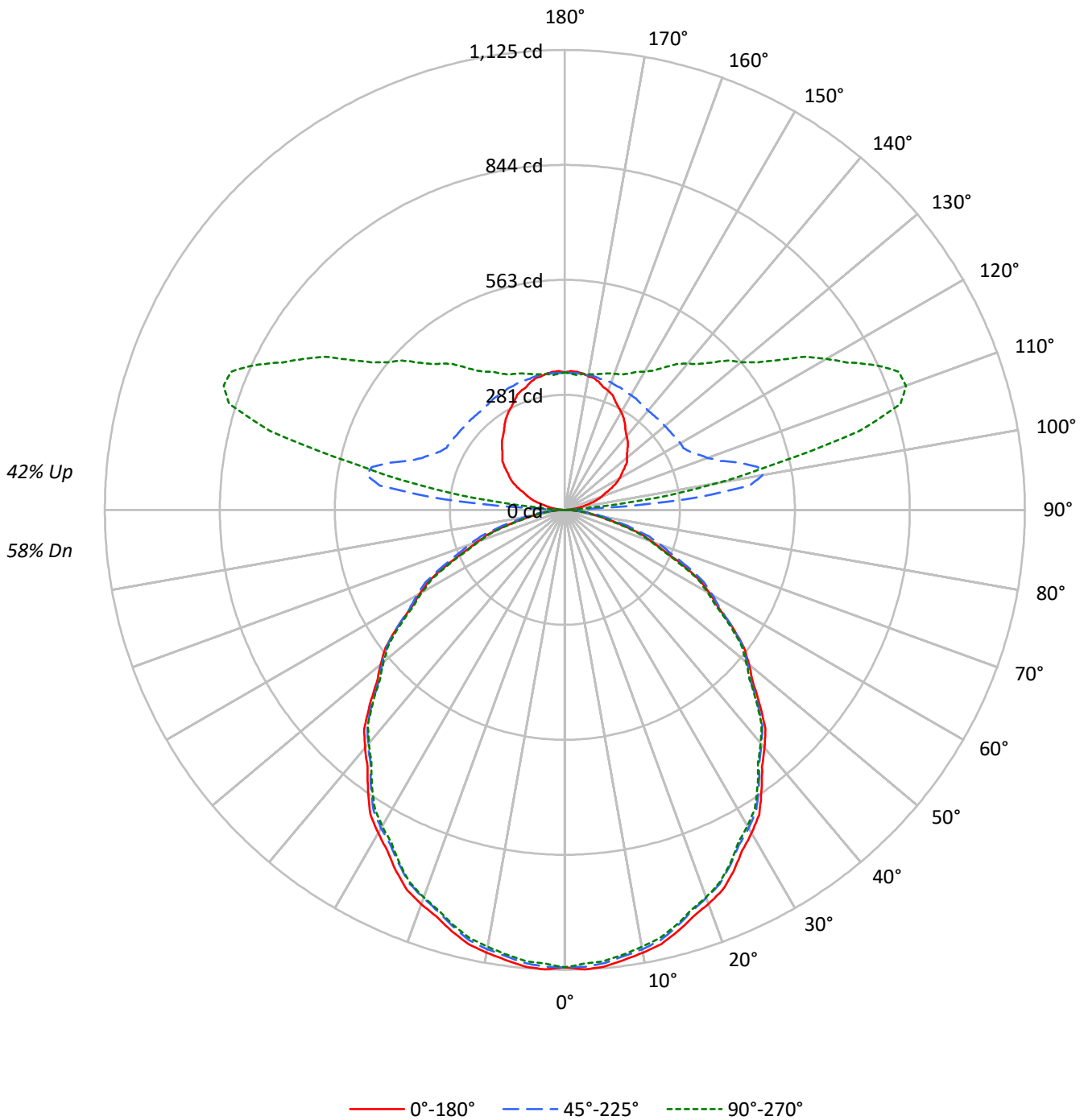
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58		
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49		
2	91	83	77	72	84	78	72	68	68	64	60	58	55	52	49	47	45	41		
3	83	73	66	60	77	69	62	57	60	55	51	52	48	44	44	41	39	35		
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	39	36	33	30		
5	70	58	50	44	65	54	47	42	48	42	37	41	37	33	35	32	29	26		
6	64	52	44	38	60	49	42	36	43	37	33	37	33	29	32	28	26	23		
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23	20		
8	55	43	35	30	51	40	33	28	36	30	26	31	26	23	27	23	20	18		
9	51	39	32	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16		
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10322	10322	10322
5°	10389	10306	10261
10°	10305	10223	10167
15°	10196	10084	10045
20°	10075	9919	9901
25°	9934	9753	9723
30°	9725	9577	9514
35°	9447	9315	9259
40°	9153	9010	8975
45°	8797	8681	8643
50°	8433	8361	8305
55°	8038	8038	7912
60°	7549	7693	7422
65°	6907	7252	6735
70°	6088	6674	5929
75°	5201	5974	5058
80°	4033	5026	4086
85°	2604	3864	3440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	2.1
10°-20°	297.4	6.0
20°-30°	441.2	8.9
30°-40°	516.2	10.5
40°-50°	513.9	10.4
50°-60°	443.8	9.0
60°-70°	319.4	6.5
70°-80°	167.5	3.4
80°-90°	41.5	0.8
90°-100°	153.2	3.1
100°-110°	435.9	8.8
110°-120°	417.6	8.5
120°-130°	330.5	6.7
130°-140°	265.3	5.4
140°-150°	207.7	4.2
150°-160°	152.0	3.1
160°-170°	94.1	1.9
170°-180°	31.9	0.6
0°-30°	844.0	17.1
0°-40°	1360.2	27.6
0°-60°	2317.9	47.0
0°-90°	2846.4	57.7
90°-120°	1006.7	20.4
90°-150°	1810.2	36.7
90°-180°	2088.0	42.3
0°-180°	4934.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1122	1109	1113	1110	1108	106
15°	1068	1054	1056	1054	1052	301
25°	976	960	958	952	955	449
35°	839	827	827	819	822	524
45°	674	668	665	663	662	520
55°	500	499	500	493	492	446
65°	316	326	332	319	308	314
75°	146	159	168	156	142	156
85°	25	32	36	34	32	32
90°	0	0	0	0	0	2
95°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	

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CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1125.1	1115.8	1118.8	1116.3	1110.9
5°	1121.7	1109.2	1112.8	1109.8	1107.9
7.5°	1110.3	1098.7	1101.4	1098.2	1097.1
10°	1100.0	1088.5	1091.2	1087.2	1085.2
12.5°	1088.2	1075.9	1078.5	1074.6	1073.4
15°	1067.5	1054.0	1055.7	1053.7	1051.7
17.5°	1043.5	1029.8	1030.0	1026.9	1026.5
20°	1026.1	1011.6	1010.3	1006.4	1008.4
22.5°	1007.2	992.0	990.6	985.2	987.9
25°	975.8	959.5	958.1	952.2	955.1
27.5°	939.6	923.4	923.4	915.2	918.3
30°	912.8	897.3	899.0	889.2	893.0
32.5°	884.4	870.5	871.4	861.6	865.4
35°	838.8	827.3	827.0	819.2	822.1
37.5°	792.3	782.1	780.5	776.0	776.7
40°	760.0	751.3	748.1	745.2	745.2
42.5°	726.1	718.2	715.0	712.8	712.1
45°	674.2	668.4	665.3	663.3	662.4
47.5°	623.0	617.6	614.9	613.5	612.5
50°	587.5	583.6	582.5	579.6	578.6
52.5°	552.0	549.7	548.6	544.9	543.9
55°	499.7	498.8	499.7	492.8	491.9
57.5°	445.3	446.9	450.1	440.7	438.4
60°	409.1	412.9	416.9	406.0	402.2
62.5°	372.0	378.2	383.8	371.3	365.9
65°	316.4	326.0	332.2	319.1	308.5
67.5°	262.8	274.7	282.1	268.0	256.1
70°	225.7	239.2	247.4	233.3	219.8
72.5°	193.4	208.4	215.1	201.8	188.3
75°	145.9	159.4	167.6	156.4	141.9
77.5°	103.5	116.2	123.0	113.3	101.3
80°	75.9	89.4	94.6	86.5	76.9
82.5°	53.8	65.0	68.6	63.7	57.2
85°	24.6	32.4	36.5	34.5	32.5
87.5°	6.3	11.7	15.0	15.0	15.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8

TEST NUMBER: P562206

CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)