

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: P562194

Luminaire Tested: **SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562194
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-050D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

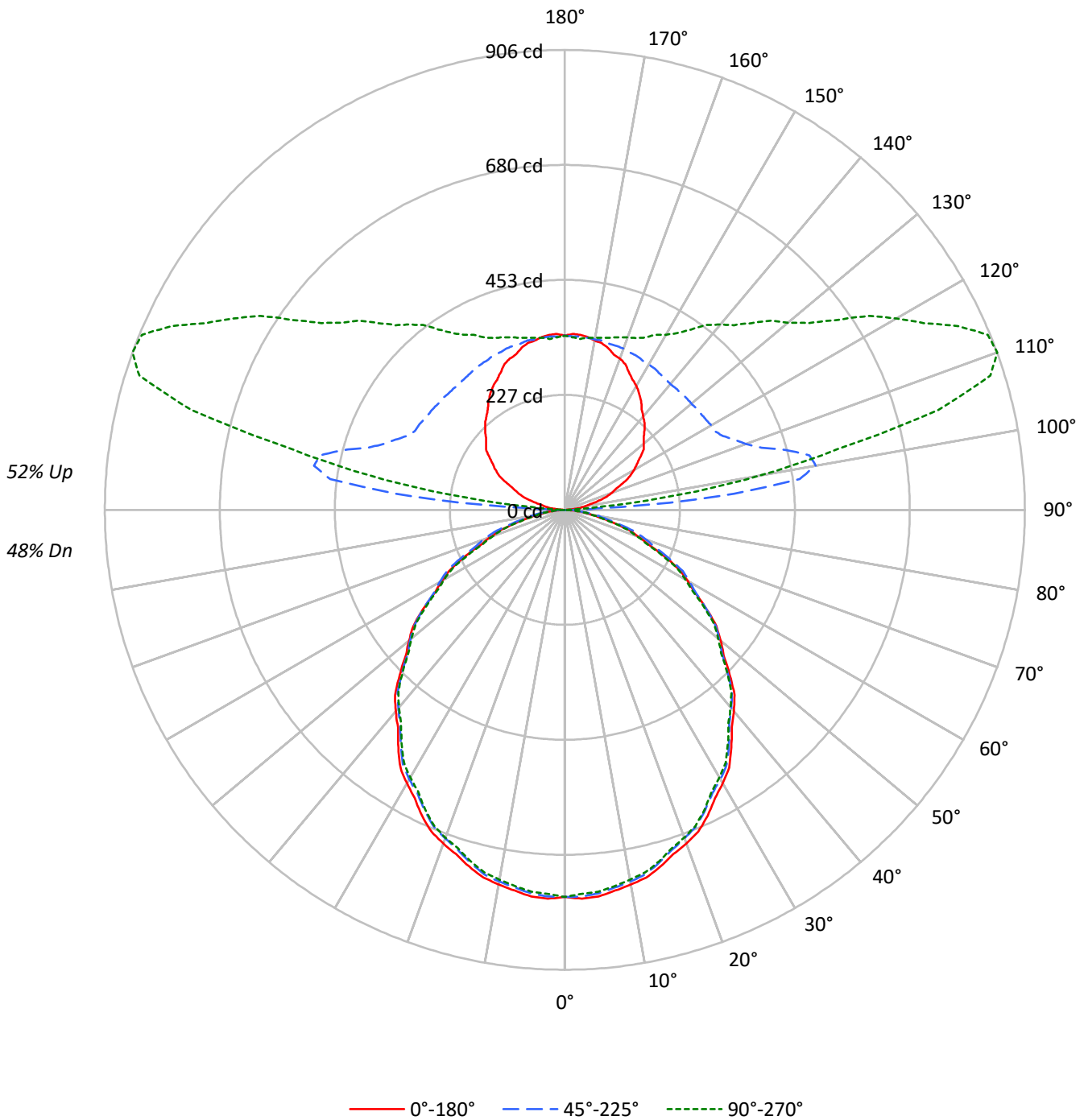
Lumens per Lamp: N/A
Luminaire Lumens: 4071.6 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.5
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: P562194
CATALOG NUMBER: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (3000K)

Luminous Intensity Polar Plot





TEST NUMBER: P562194

CATALOG NUMBER: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (3000K)

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48		
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40		
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34		
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29		
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28	25		
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22		
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19		
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17		
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17	15		
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14		
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7035	7035	7035
5°	7080	7025	6993
10°	7024	6967	6930
15°	6950	6872	6847
20°	6867	6761	6748
25°	6771	6648	6627
30°	6628	6527	6485
35°	6439	6348	6311
40°	6239	6141	6117
45°	5995	5917	5891
50°	5747	5698	5661
55°	5479	5479	5392
60°	5145	5244	5058
65°	4709	4943	4591
70°	4149	4548	4041
75°	3543	4071	3447
80°	2747	3427	2784
85°	1778	2636	2350



TEST NUMBER: P562194

CATALOG NUMBER: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (3000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.8	1.8
10°-20°	202.7	5.0
20°-30°	300.7	7.4
30°-40°	351.8	8.6
40°-50°	350.3	8.6
50°-60°	302.5	7.4
60°-70°	217.7	5.3
70°-80°	114.2	2.8
80°-90°	28.3	0.7
90°-100°	156.4	3.8
100°-110°	444.9	10.9
110°-120°	426.3	10.5
120°-130°	337.4	8.3
130°-140°	270.8	6.7
140°-150°	212.0	5.2
150°-160°	155.1	3.8
160°-170°	96.1	2.4
170°-180°	32.6	0.8
0°-30°	575.2	14.1
0°-40°	927.0	22.8
0°-60°	1579.8	38.8
0°-90°	1940.0	47.6
90°-120°	1027.6	25.2
90°-150°	1847.8	45.4
90°-180°	2132.0	52.4
0°-180°	4071.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	756	758	756	755	72
15°	728	718	720	718	717	205
25°	665	654	653	649	651	306
35°	572	564	564	558	560	357
45°	460	456	454	452	452	355
55°	341	340	341	336	335	304
65°	216	222	226	218	210	214
75°	99	109	114	107	97	107
85°	17	22	25	24	22	22
90°	0	0	0	0	0	1
95°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	

TEST NUMBER: P562194

CATALOG NUMBER: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.5	762.5	762.5	762.5	762.5
2.5°	766.8	760.5	762.5	760.8	757.1
5°	764.5	756.0	758.5	756.4	755.1
7.5°	756.7	748.8	750.7	748.5	747.7
10°	749.7	741.9	743.7	741.0	739.7
12.5°	741.7	733.3	735.1	732.4	731.6
15°	727.6	718.4	719.5	718.1	716.8
17.5°	711.2	701.8	702.0	699.9	699.6
20°	699.4	689.5	688.6	685.9	687.3
22.5°	686.5	676.1	675.2	671.4	673.3
25°	665.1	653.9	653.0	649.0	651.0
27.5°	640.4	629.3	629.3	623.8	625.9
30°	622.1	611.6	612.7	606.0	608.7
32.5°	602.7	593.3	593.9	587.2	589.8
35°	571.7	563.8	563.6	558.3	560.3
37.5°	540.0	533.0	531.9	528.9	529.4
40°	518.0	512.1	509.9	507.9	507.9
42.5°	494.9	489.5	487.3	485.8	485.3
45°	459.5	455.6	453.5	452.1	451.5
47.5°	424.6	420.9	419.1	418.1	417.5
50°	400.4	397.8	397.0	395.0	394.4
52.5°	376.2	374.6	373.9	371.4	370.7
55°	340.6	339.9	340.6	335.9	335.2
57.5°	303.5	304.6	306.7	300.4	298.8
60°	278.8	281.4	284.2	276.7	274.1
62.5°	253.5	257.7	261.6	253.1	249.4
65°	215.7	222.2	226.4	217.5	210.3
67.5°	179.1	187.2	192.3	182.7	174.5
70°	153.8	163.0	168.6	159.0	149.8
72.5°	131.8	142.1	146.6	137.5	128.3
75°	99.4	108.6	114.2	106.6	96.7
77.5°	70.5	79.2	83.8	77.2	69.1
80°	51.7	60.9	64.5	59.0	52.4
82.5°	36.7	44.3	46.8	43.4	39.0
85°	16.8	22.1	24.9	23.5	22.2
87.5°	4.3	8.0	10.2	10.2	10.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2

TEST NUMBER: P562194

CATALOG NUMBER: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.0	138.4	360.8	788.7	901.5
115°	128.5	155.3	343.8	728.3	855.3
117.5°	144.8	170.0	333.8	662.4	796.8
120°	157.9	178.9	332.7	624.7	753.5
122.5°	168.3	189.4	330.1	591.6	711.2
125°	181.4	201.1	328.2	544.6	651.1
127.5°	195.6	214.1	327.1	516.5	604.2
130°	202.9	221.4	325.5	496.9	573.4
132.5°	210.7	228.7	325.5	481.6	552.1
135°	221.8	240.3	324.2	460.0	520.0
137.5°	232.3	250.2	324.1	441.7	493.5
140°	240.1	258.6	323.6	426.5	476.2
142.5°	249.0	264.4	325.2	414.4	459.0
145°	261.6	275.0	326.8	398.1	433.8
147.5°	272.4	285.5	329.7	381.7	412.6
150°	281.8	290.8	330.8	376.3	398.0
152.5°	289.1	298.6	331.8	368.9	389.1
155°	298.8	305.8	334.7	359.8	374.5
157.5°	310.8	315.0	335.3	355.7	366.1
160°	317.1	320.3	337.9	352.5	361.4
162.5°	320.7	324.4	338.5	349.8	356.7
165°	330.1	331.4	338.6	345.9	351.0
167.5°	336.5	335.4	341.6	344.9	346.9
170°	338.6	338.0	340.5	341.3	343.8
172.5°	343.3	341.1	342.1	340.2	342.2
175°	345.8	343.9	342.5	340.5	337.9
177.5°	346.8	343.7	342.1	340.0	340.5
180°	343.2	343.2	343.2	343.2	343.2

(END OF REPORT)