

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: P561472

Luminaire Tested: **SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561472  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-050D-92765-1D-UNV-STD-W-4 (6500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4509.9 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

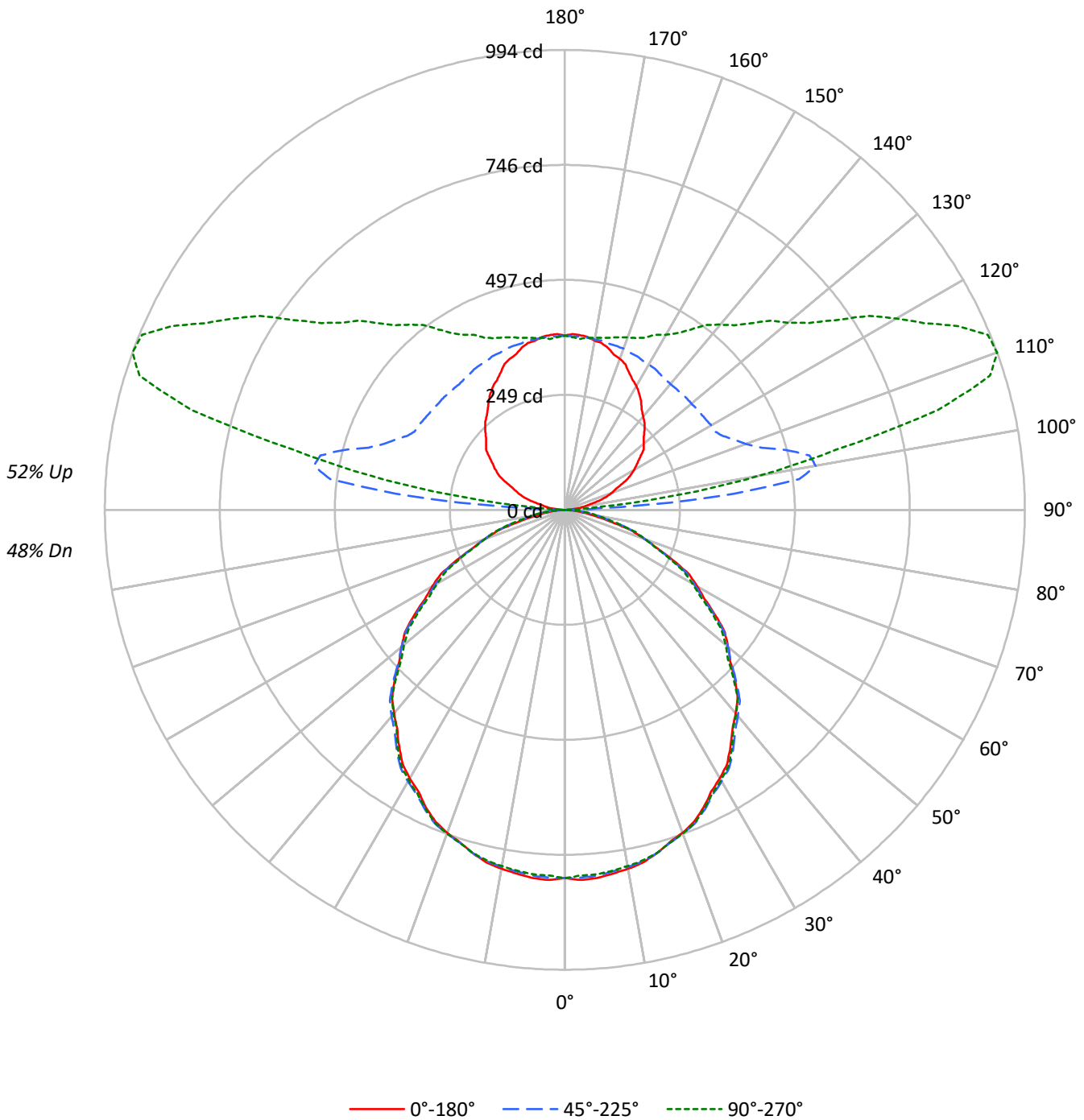
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7342	7342	7342
5°	7398	7350	7323
10°	7380	7345	7324
15°	7340	7340	7334
20°	7293	7315	7315
25°	7224	7277	7253
30°	7136	7222	7191
35°	7029	7137	7088
40°	6913	7011	6940
45°	6787	6836	6730
50°	6610	6610	6505
55°	6400	6317	6223
60°	6091	5969	5873
65°	5630	5517	5469
70°	4928	4969	4950
75°	3968	4388	4413
80°	2821	3719	3756
85°	1715	3123	3123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	1.7
10°-20°	216.1	4.8
20°-30°	327.3	7.3
30°-40°	392.4	8.7
40°-50°	400.1	8.9
50°-60°	349.3	7.7
60°-70°	250.0	5.5
70°-80°	128.8	2.9
80°-90°	32.6	0.7
90°-100°	171.5	3.8
100°-110°	488.0	10.8
110°-120°	467.6	10.4
120°-130°	370.1	8.2
130°-140°	297.0	6.6
140°-150°	232.5	5.2
150°-160°	170.1	3.8
160°-170°	105.4	2.3
170°-180°	35.8	0.8
0°-30°	618.8	13.7
0°-40°	1011.1	22.4
0°-60°	1760.5	39.0
0°-90°	2171.9	48.2
90°-120°	1127.1	25.0
90°-150°	2026.7	44.9
90°-180°	2338.0	51.8
0°-180°	4509.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	799	791	794	791	791	76
15°	768	762	768	768	768	217
25°	710	705	715	712	712	327
35°	624	623	634	629	629	390
45°	520	519	524	517	516	400
55°	398	393	393	387	387	355
65°	258	252	253	250	250	255
75°	111	116	123	124	124	120
85°	16	25	30	30	30	22
90°	0	0	0	0	0	1
95°	19	74	332	115	71	21
105°	76	115	497	878	835	80
115°	141	170	377	799	938	139
125°	199	221	360	597	714	178
135°	243	264	356	504	570	188
145°	287	302	358	437	476	179
155°	328	335	367	395	411	151
165°	362	364	371	379	385	102
175°	379	377	376	374	371	36
180°	376	376	376	376	376	



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CATALOG NUMBER: SQ4-PC3-050U-050D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	795.8	795.8	795.8	795.8	795.8
2.5°	800.5	793.6	795.8	794.0	791.1
5°	798.8	790.8	793.6	791.4	790.7
7.5°	793.0	785.1	788.7	787.2	786.5
10°	787.7	779.8	784.0	782.5	781.8
12.5°	780.6	773.3	778.1	776.6	776.5
15°	768.5	762.1	768.5	768.5	767.8
17.5°	753.4	747.5	754.4	754.8	754.4
20°	742.8	736.3	745.0	744.2	745.0
22.5°	729.8	724.5	733.8	731.9	732.6
25°	709.6	704.6	714.8	712.5	712.5
27.5°	685.7	682.1	693.2	690.9	690.9
30°	669.8	666.2	677.9	675.0	675.0
32.5°	652.1	649.7	660.8	657.3	657.3
35°	624.1	622.7	633.7	629.3	629.3
37.5°	595.2	593.9	603.9	598.6	596.9
40°	574.0	573.3	582.1	576.2	576.2
42.5°	552.8	552.1	559.7	552.6	552.6
45°	520.2	518.8	523.9	517.2	515.8
47.5°	484.7	483.3	486.5	479.2	478.5
50°	460.5	459.1	460.5	453.9	453.2
52.5°	435.8	433.2	433.4	426.8	426.6
55°	397.9	392.9	392.7	386.9	386.9
57.5°	357.8	351.2	351.8	346.8	346.0
60°	330.1	322.9	323.5	319.0	318.3
62.5°	303.0	294.6	296.4	291.4	291.2
65°	257.9	252.1	252.7	250.5	250.5
67.5°	214.6	209.2	213.1	211.3	211.2
70°	182.7	179.1	184.2	184.2	183.5
72.5°	153.3	153.1	159.5	159.5	159.9
75°	111.3	116.3	123.1	123.8	123.8
77.5°	74.3	83.2	90.6	90.9	90.8
80°	53.1	63.1	70.0	71.5	70.7
82.5°	36.0	46.6	52.3	53.8	53.1
85°	16.2	24.9	29.5	30.2	29.5
87.5°	4.7	9.9	11.8	11.8	10.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.4	70.4	20.5	15.5
95°	18.6	73.9	332.0	114.9	70.8
97.5°	34.2	86.5	511.3	365.9	250.7
100°	45.1	94.1	550.3	557.4	429.3
102.5°	57.1	102.2	541.7	713.5	601.6
105°	75.8	115.0	497.3	878.4	835.1
107.5°	94.9	130.0	445.5	925.0	963.6
110°	108.1	140.9	415.7	907.2	993.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	151.8	395.7	865.1	988.8
115°	141.0	170.4	377.1	798.9	938.1
117.5°	158.9	186.4	366.1	726.5	874.0
120°	173.2	196.3	364.9	685.1	826.5
122.5°	184.6	207.7	362.1	648.9	780.1
125°	198.9	220.6	359.9	597.3	714.1
127.5°	214.5	234.8	358.8	566.5	662.8
130°	222.5	242.8	357.1	545.0	629.0
132.5°	231.1	250.9	357.1	528.3	605.5
135°	243.3	263.6	355.6	504.5	570.3
137.5°	254.7	274.5	355.5	484.4	541.3
140°	263.3	283.6	354.9	467.8	522.4
142.5°	273.1	290.0	356.6	454.5	503.5
145°	286.9	301.6	358.5	436.7	475.8
147.5°	298.8	313.1	361.6	418.7	452.5
150°	309.1	318.9	362.8	412.7	436.5
152.5°	317.1	327.5	363.9	404.7	426.8
155°	327.7	335.4	367.1	394.6	410.7
157.5°	340.9	345.5	367.8	390.1	401.6
160°	347.8	351.3	370.7	386.6	396.4
162.5°	351.8	355.8	371.2	383.7	391.3
165°	362.1	363.5	371.4	379.4	385.0
167.5°	369.1	367.8	374.7	378.3	380.5
170°	371.4	370.7	373.5	374.3	377.1
172.5°	376.5	374.2	375.2	373.1	375.4
175°	379.2	377.1	375.7	373.5	370.7
177.5°	380.4	377.0	375.2	373.0	373.5
180°	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)