

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: P561573

Luminaire Tested: **SQ4-PC3-0U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561573  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-050D-92765-1D-UNV-STD-W-4 (4500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2098.1 lumens  
Efficiency: N/A  
Efficacy: 101.4 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: Direct

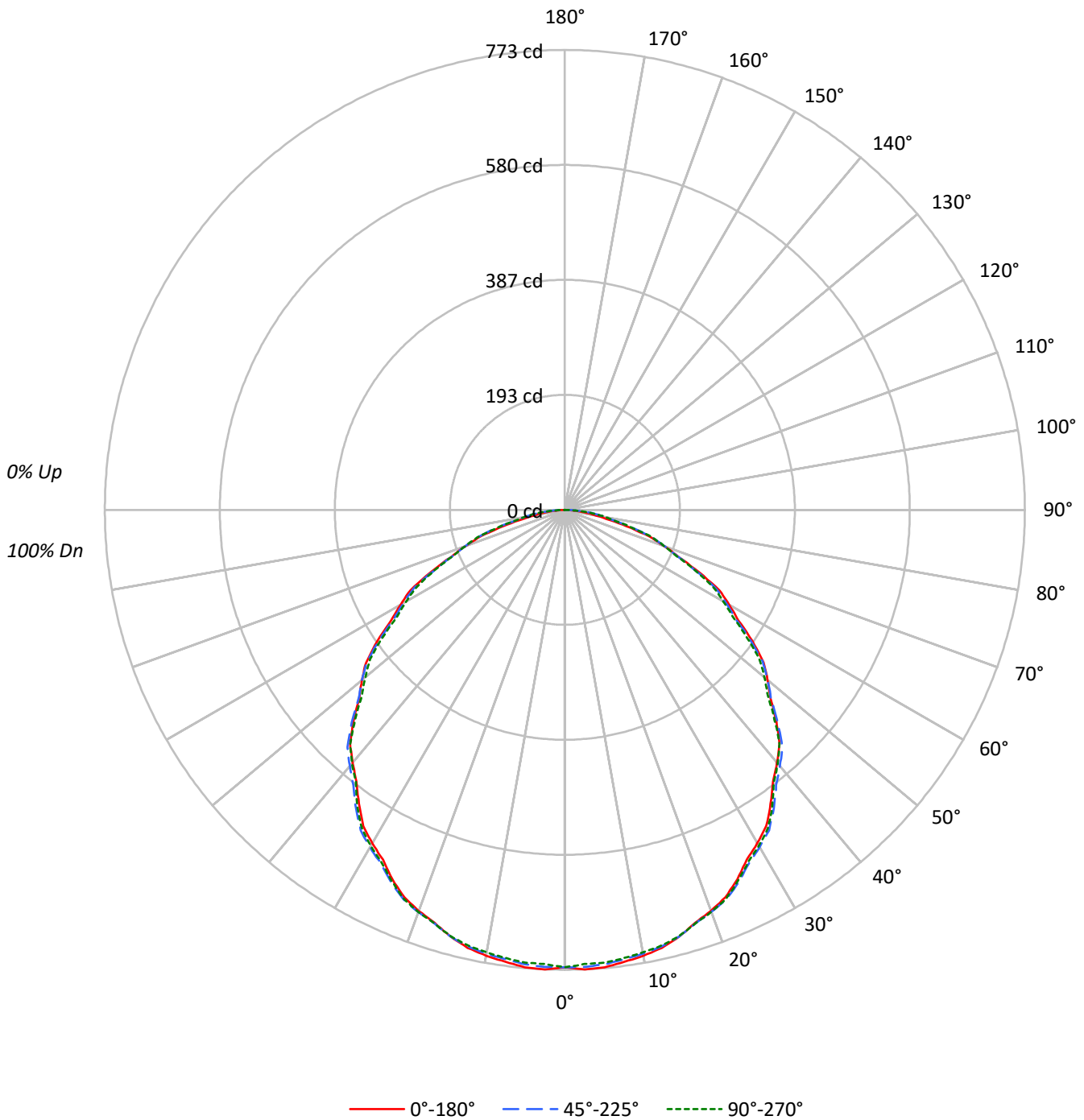
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	7093	7093	7093
5°	7146	7100	7074
10°	7129	7096	7075
15°	7091	7091	7084
20°	7045	7065	7065
25°	6978	7029	7007
30°	6893	6977	6946
35°	6791	6895	6847
40°	6678	6772	6704
45°	6557	6604	6502
50°	6386	6386	6284
55°	6183	6103	6011
60°	5884	5766	5674
65°	5438	5331	5283
70°	4761	4802	4780
75°	3832	4238	4263
80°	2726	3592	3629
85°	1662	3017	3017



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.8	3.5
10°-20°	208.8	10.0
20°-30°	316.2	15.1
30°-40°	379.1	18.1
40°-50°	386.5	18.4
50°-60°	337.4	16.1
60°-70°	241.5	11.5
70°-80°	124.4	5.9
80°-90°	31.5	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	597.7	28.5
0°-40°	976.8	46.6
0°-60°	1700.7	81.1
0°-90°	2098.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2098.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	764	767	764	764	73
15°	742	736	742	742	742	209
25°	686	681	690	688	688	315
35°	603	602	612	608	608	377
45°	502	501	506	500	498	387
55°	384	380	379	374	374	343
65°	249	244	244	242	242	246
75°	108	112	119	120	120	116
85°	16	24	28	29	28	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	768.8	768.8	768.8	768.8	768.8
2.5°	773.3	766.6	768.8	767.0	764.2
5°	771.6	764.0	766.6	764.5	763.8
7.5°	766.1	758.4	761.9	760.5	759.8
10°	760.9	753.3	757.4	755.9	755.2
12.5°	754.1	747.0	751.7	750.2	750.1
15°	742.4	736.2	742.4	742.4	741.7
17.5°	727.8	722.1	728.8	729.2	728.8
20°	717.5	711.2	719.6	718.9	719.6
22.5°	705.0	699.8	708.8	707.0	707.7
25°	685.5	680.6	690.5	688.3	688.3
27.5°	662.4	658.9	669.7	667.4	667.4
30°	647.0	643.6	654.9	652.0	652.0
32.5°	630.0	627.6	638.4	634.9	634.9
35°	602.9	601.5	612.2	607.9	607.9
37.5°	575.0	573.8	583.4	578.2	576.6
40°	554.5	553.8	562.3	556.6	556.6
42.5°	534.0	533.3	540.7	533.9	533.9
45°	502.5	501.1	506.1	499.7	498.3
47.5°	468.2	466.8	469.9	462.9	462.3
50°	444.9	443.5	444.9	438.5	437.8
52.5°	421.0	418.5	418.7	412.3	412.1
55°	384.4	379.5	379.4	373.7	373.7
57.5°	345.7	339.3	339.8	335.0	334.3
60°	318.9	311.9	312.5	308.2	307.5
62.5°	292.7	284.6	286.3	281.4	281.3
65°	249.1	243.6	244.2	242.0	242.0
67.5°	207.3	202.1	205.9	204.1	204.0
70°	176.5	173.0	178.0	177.9	177.2
72.5°	148.1	147.9	154.0	154.0	154.5
75°	107.5	112.4	118.9	119.6	119.6
77.5°	71.8	80.4	87.6	87.8	87.7
80°	51.3	61.0	67.6	69.0	68.3
82.5°	34.7	45.0	50.5	51.9	51.3
85°	15.7	24.0	28.5	29.2	28.5
87.5°	4.6	9.6	11.4	11.4	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)