

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: P561575

Luminaire Tested: **SQ4-PC3-0U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561575  
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 (5700K)  
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 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

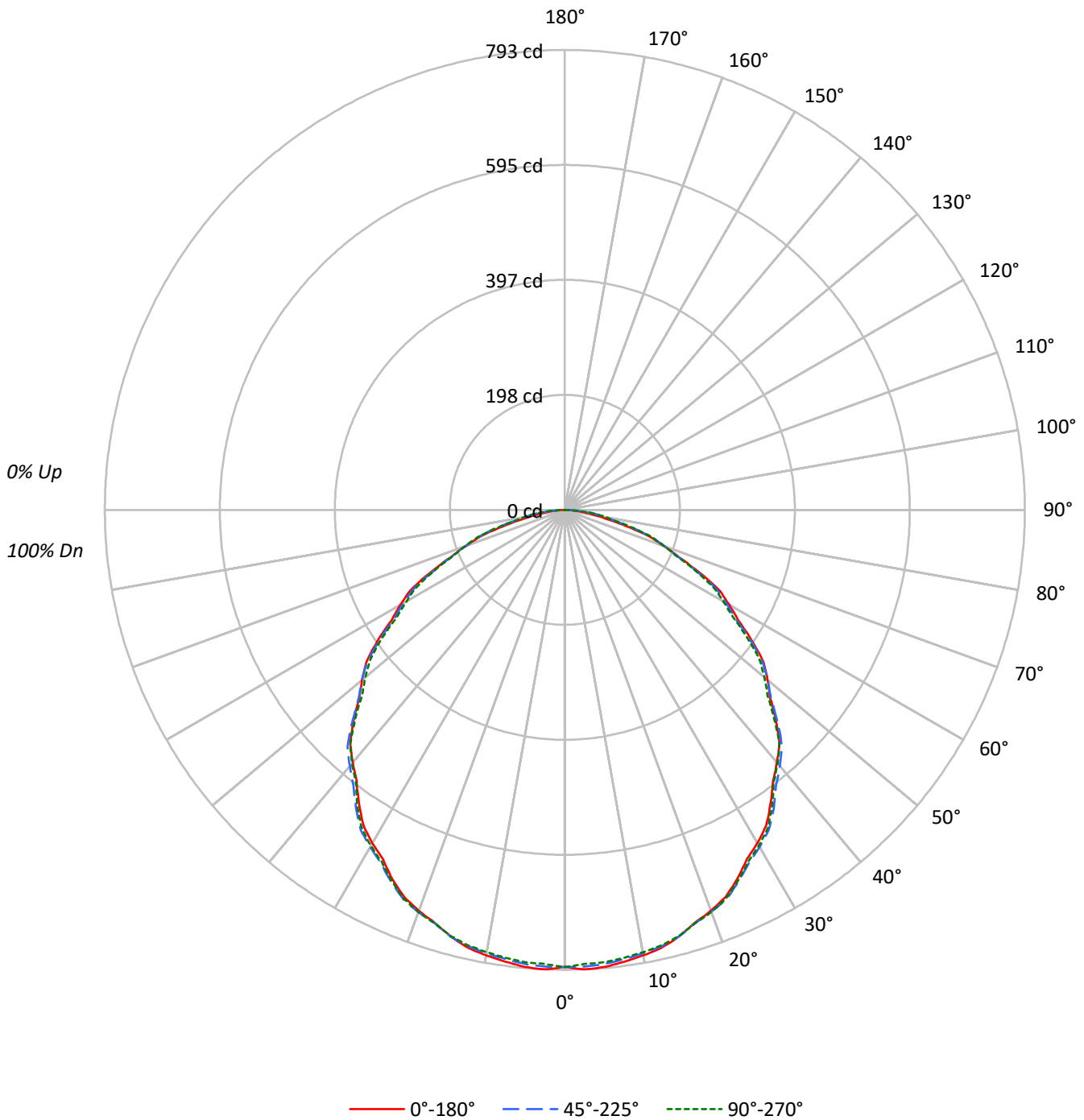
Lumens per Lamp: N/A  
Luminaire Lumens: 2151.5 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
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				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°	7273	7273	7273
5°	7329	7280	7254
10°	7310	7277	7256
15°	7272	7272	7265
20°	7224	7246	7246
25°	7156	7207	7186
30°	7069	7154	7123
35°	6964	7070	7021
40°	6848	6946	6875
45°	6724	6772	6667
50°	6548	6548	6443
55°	6341	6259	6164
60°	6034	5912	5818
65°	5578	5466	5418
70°	4883	4923	4904
75°	3928	4345	4370
80°	2795	3682	3725
85°	1704	3091	3091



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	3.5
10°-20°	214.1	10.0
20°-30°	324.2	15.1
30°-40°	388.7	18.1
40°-50°	396.4	18.4
50°-60°	346.0	16.1
60°-70°	247.7	11.5
70°-80°	127.6	5.9
80°-90°	32.3	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°	612.9	28.5
0°-40°	1001.6	46.6
0°-60°	1744.0	81.1
0°-90°	2151.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	791	783	786	784	783	75
15°	761	755	761	761	761	215
25°	703	698	708	706	706	323
35°	618	617	628	623	623	387
45°	515	514	519	512	511	397
55°	394	389	389	383	383	351
65°	256	250	250	248	248	253
75°	110	115	122	123	123	119
85°	16	25	29	30	29	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	788.3	788.3	788.3	788.3	788.3
2.5°	793.0	786.2	788.3	786.5	783.7
5°	791.3	783.4	786.1	783.9	783.2
7.5°	785.6	777.7	781.3	779.9	779.1
10°	780.3	772.5	776.7	775.2	774.5
12.5°	773.3	766.0	770.8	769.4	769.2
15°	761.3	754.9	761.3	761.3	760.6
17.5°	746.3	740.4	747.3	747.7	747.3
20°	735.8	729.4	738.0	737.3	738.0
22.5°	722.9	717.7	726.9	725.0	725.7
25°	702.9	697.9	708.0	705.9	705.9
27.5°	679.3	675.7	686.7	684.4	684.4
30°	663.5	659.9	671.5	668.6	668.6
32.5°	646.0	643.6	654.6	651.1	651.1
35°	618.3	616.8	627.7	623.4	623.4
37.5°	589.6	588.4	598.3	593.0	591.3
40°	568.6	567.9	576.7	570.8	570.8
42.5°	547.6	546.9	554.5	547.5	547.5
45°	515.3	513.9	519.0	512.4	511.0
47.5°	480.2	478.7	481.9	474.7	474.0
50°	456.2	454.8	456.2	449.6	448.9
52.5°	431.7	429.1	429.4	422.8	422.6
55°	394.2	389.2	389.1	383.2	383.2
57.5°	354.5	347.9	348.5	343.5	342.8
60°	327.0	319.9	320.4	316.0	315.3
62.5°	300.2	291.9	293.6	288.6	288.5
65°	255.5	249.8	250.4	248.2	248.2
67.5°	212.6	207.3	211.1	209.3	209.2
70°	181.0	177.5	182.5	182.5	181.8
72.5°	151.8	151.7	158.0	158.0	158.4
75°	110.2	115.2	121.9	122.6	122.6
77.5°	73.6	82.4	89.8	90.1	89.9
80°	52.6	62.5	69.3	70.8	70.1
82.5°	35.6	46.2	51.8	53.3	52.6
85°	16.1	24.6	29.2	29.9	29.2
87.5°	4.7	9.8	11.7	11.7	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)