

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: P561576

Luminaire Tested: **SQ4-PC3-0U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561576  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2171.9 lumens  
Efficiency: N/A  
Efficacy: 105.9 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

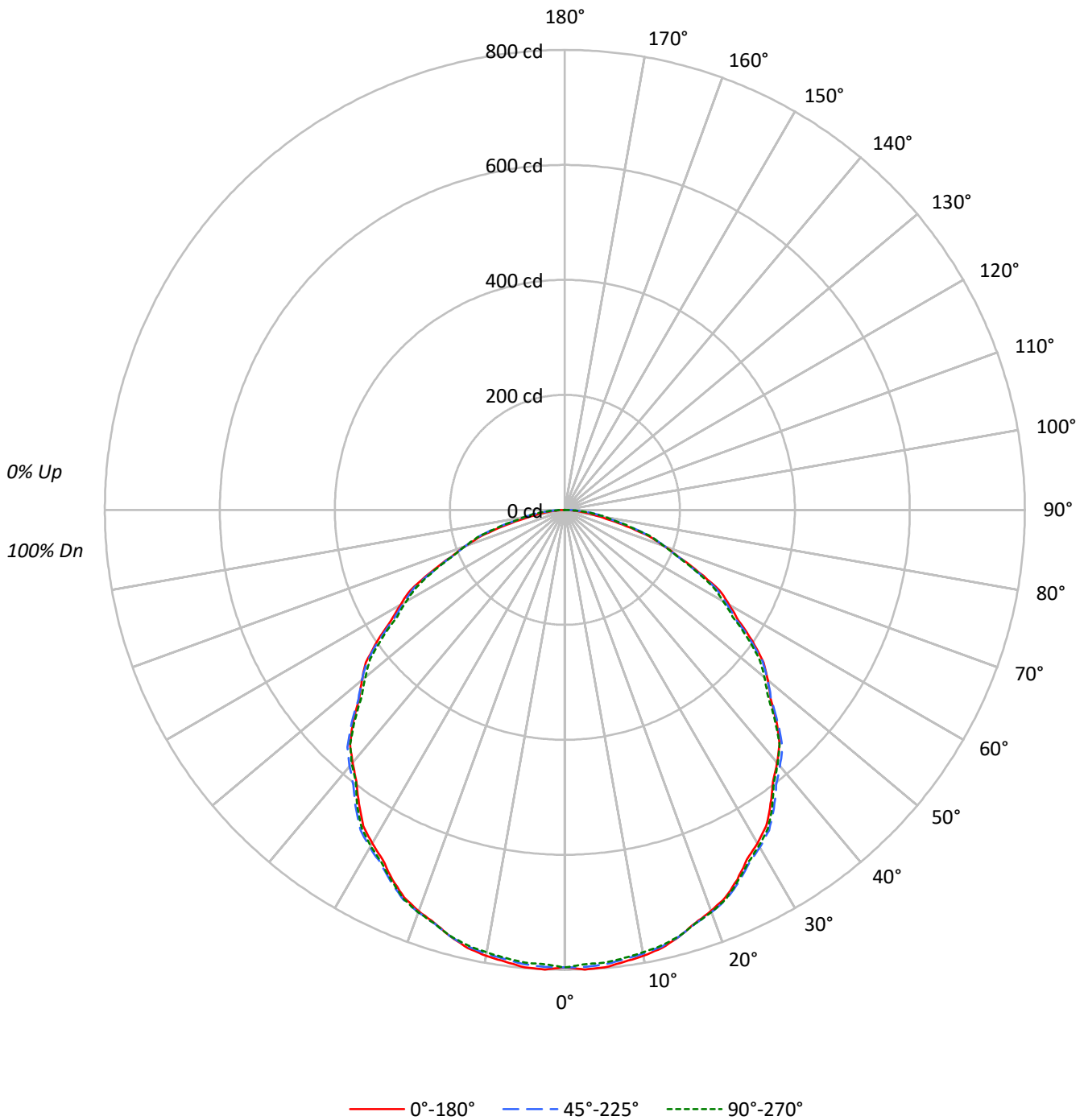
Input Watts (W): 20.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	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	3.5
10°-20°	216.1	10.0
20°-30°	327.3	15.1
30°-40°	392.4	18.1
40°-50°	400.1	18.4
50°-60°	349.3	16.1
60°-70°	250.0	11.5
70°-80°	128.8	5.9
80°-90°	32.6	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°	618.8	28.5
0°-40°	1011.1	46.6
0°-60°	1760.5	81.1
0°-90°	2171.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2171.9	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	23
90°	0	0	0	0	0	



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**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

(END OF REPORT)