

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: P523780

Luminaire Tested: **SQ4-PP3-0U-050D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523780  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-0U-050D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2101.3 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

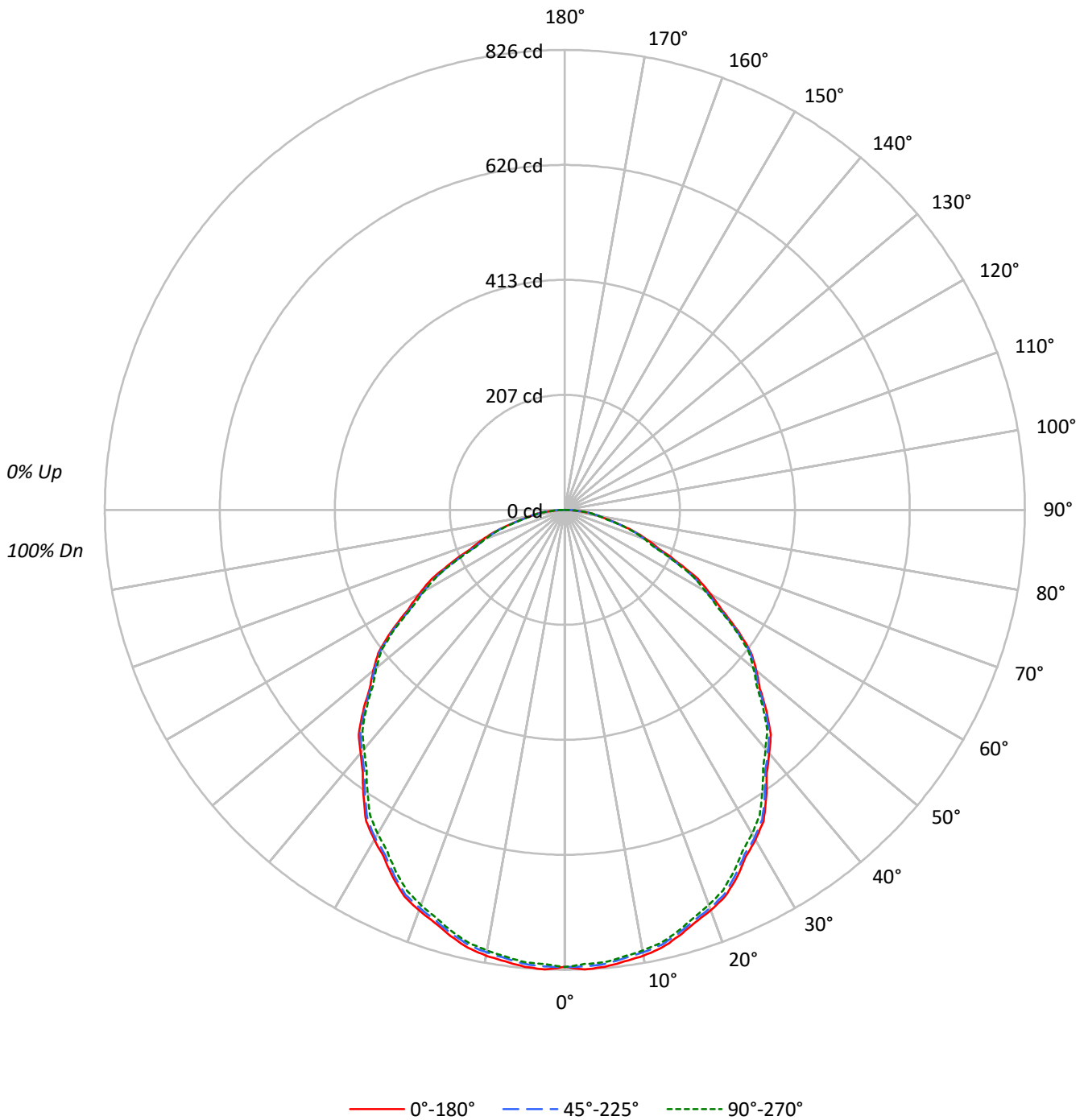
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

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

	0°	45°	90°
0°	7575	7575	7575
5°	7630	7583	7556
10°	7618	7563	7529
15°	7567	7526	7485
20°	7517	7475	7418
25°	7427	7376	7303
30°	7290	7252	7159
35°	7099	7051	6962
40°	6872	6829	6751
45°	6684	6637	6572
50°	6445	6403	6341
55°	6111	6030	5984
60°	5563	5403	5377
65°	4901	4696	4681
70°	4232	4057	4057
75°	3643	3590	3540
80°	3209	3252	3172
85°	2509	2742	2742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	3.7
10°-20°	221.7	10.5
20°-30°	332.0	15.8
30°-40°	389.5	18.5
40°-50°	390.7	18.6
50°-60°	333.3	15.9
60°-70°	217.3	10.3
70°-80°	109.0	5.2
80°-90°	30.2	1.4
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°	631.3	30.0
0°-40°	1020.8	48.6
0°-60°	1744.7	83.0
0°-90°	2101.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	824	816	819	816	816	78
15°	792	784	788	785	784	223
25°	730	721	725	718	717	336
35°	630	624	626	619	618	394
45°	512	509	509	504	504	394
55°	380	378	375	373	372	338
65°	224	220	215	214	214	224
75°	102	102	101	100	99	111
85°	24	26	26	26	26	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	821.0	821.0	821.0	821.0	821.0
2.5°	826.2	819.4	821.0	819.7	816.4
5°	823.8	816.1	818.8	815.9	815.9
7.5°	818.2	809.8	812.5	809.6	809.5
10°	813.1	804.6	807.3	804.4	803.7
12.5°	805.6	797.1	800.4	796.9	796.8
15°	792.2	784.5	787.9	785.0	783.6
17.5°	777.1	768.6	772.8	768.7	768.2
20°	765.6	757.1	761.3	755.5	755.5
22.5°	751.8	743.3	748.0	740.5	740.5
25°	729.6	721.1	724.6	718.1	717.4
27.5°	703.3	695.0	698.5	691.2	691.0
30°	684.3	676.5	680.7	672.7	672.0
32.5°	663.5	656.4	659.4	651.4	650.7
35°	630.3	624.0	626.0	618.8	618.1
37.5°	595.3	588.9	591.2	585.0	584.7
40°	570.6	566.4	567.0	561.9	560.5
42.5°	547.6	542.8	543.4	538.3	538.1
45°	512.3	508.8	508.7	503.7	503.7
47.5°	474.9	472.2	471.4	467.3	467.1
50°	449.0	446.9	446.1	442.5	441.8
52.5°	421.9	420.9	418.5	415.4	415.3
55°	379.9	378.5	374.9	372.7	372.0
57.5°	334.3	331.5	327.4	324.2	324.8
60°	301.5	298.7	292.8	291.4	291.4
62.5°	269.8	266.4	260.6	258.6	259.7
65°	224.5	220.3	215.1	213.7	214.4
67.5°	183.3	179.5	174.0	174.0	173.4
70°	156.9	154.7	150.4	150.4	150.4
72.5°	133.3	132.3	129.1	129.1	128.5
75°	102.2	102.2	100.7	100.0	99.3
77.5°	76.6	76.8	76.1	75.4	74.1
80°	60.4	61.8	61.2	60.4	59.7
82.5°	45.5	46.9	46.8	45.5	45.3
85°	23.7	25.9	25.9	25.9	25.9
87.5°	6.3	8.6	9.2	9.2	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)