

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: P523673

Luminaire Tested: **SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523673  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PP3-050U-050D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4191.2 lumens  
Efficiency: N/A  
Efficacy: 114.8 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: General Diffuse

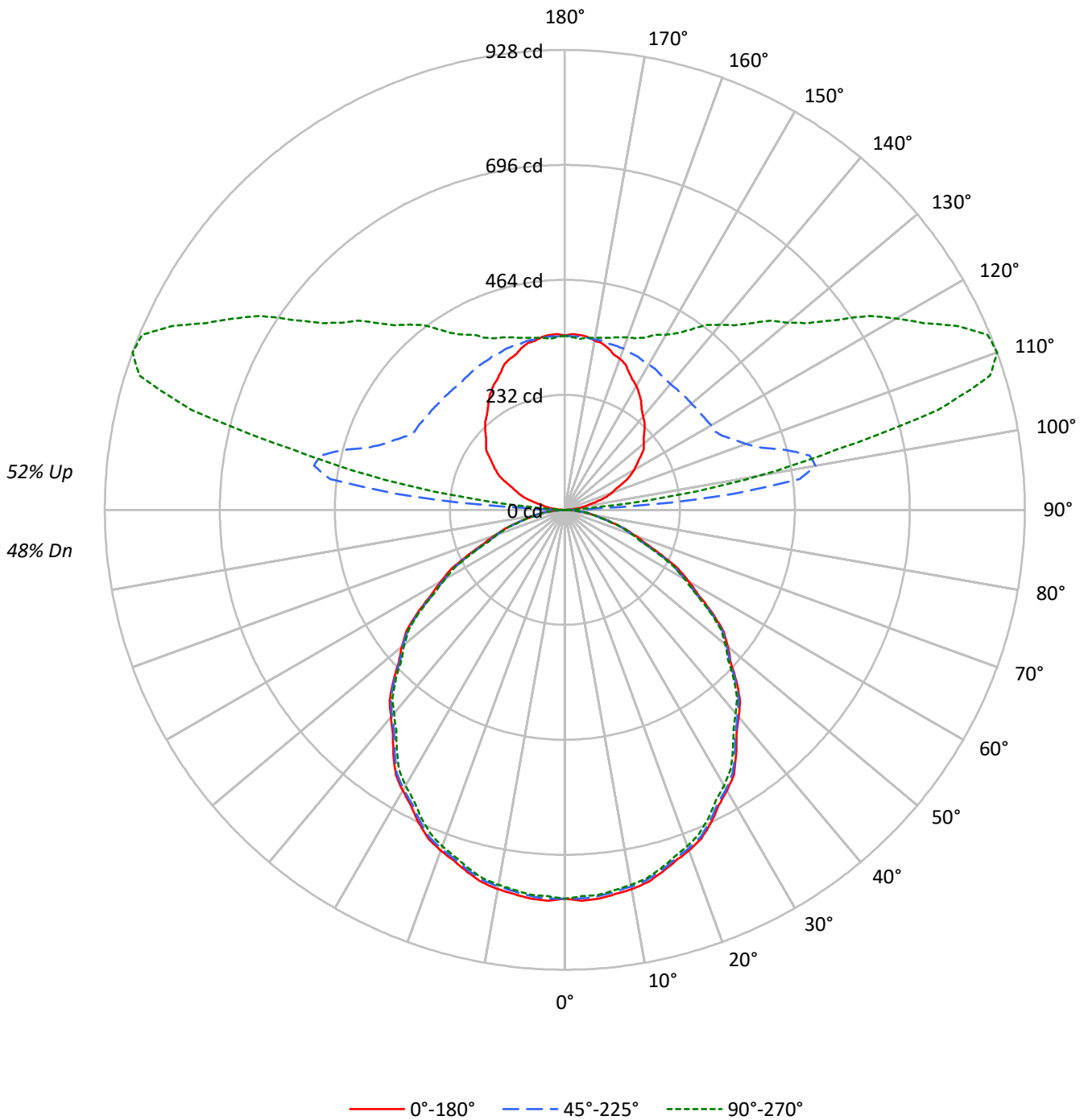
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
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	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41		
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	43	41	39	34		
3	81	72	65	59	74	66	60	55	56	51	48	47	43	40	38	36	33	29		
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25		
5	68	57	49	43	63	53	45	40	45	39	35	37	33	30	31	28	25	22		
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19		
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20	17		
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15		
9	50	38	31	26	46	35	29	24	31	25	21	26	22	19	21	18	16	14		
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13		

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

	0°	45°	90°
0°	7240	7240	7240
5°	7293	7249	7223
10°	7281	7230	7197
15°	7233	7193	7154
20°	7185	7145	7091
25°	7100	7051	6980
30°	6968	6931	6844
35°	6786	6740	6654
40°	6569	6528	6453
45°	6390	6345	6281
50°	6160	6120	6061
55°	5841	5763	5720
60°	5318	5165	5139
65°	4685	4488	4475
70°	4044	3876	3876
75°	3483	3433	3383
80°	3071	3108	3034
85°	2403	2625	2625



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	1.8
10°-20°	211.9	5.1
20°-30°	317.4	7.6
30°-40°	372.3	8.9
40°-50°	373.4	8.9
50°-60°	318.5	7.6
60°-70°	207.7	5.0
70°-80°	104.2	2.5
80°-90°	28.9	0.7
90°-100°	160.1	3.8
100°-110°	455.6	10.9
110°-120°	436.5	10.4
120°-130°	345.5	8.2
130°-140°	277.3	6.6
140°-150°	217.1	5.2
150°-160°	158.8	3.8
160°-170°	98.4	2.3
170°-180°	33.4	0.8
0°-30°	603.5	14.4
0°-40°	975.7	23.3
0°-60°	1667.7	39.8
0°-90°	2008.5	47.9
90°-120°	1052.2	25.1
90°-150°	1892.1	45.1
90°-180°	2183.0	52.1
0°-180°	4191.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	788	780	783	780	780	75
15°	757	750	753	750	749	214
25°	697	689	693	686	686	321
35°	602	596	598	592	591	376
45°	490	486	486	481	481	377
55°	363	362	358	356	356	323
65°	215	210	206	204	205	214
75°	98	98	96	96	95	106
85°	23	25	25	25	25	27
90°	0	0	0	0	0	2
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	



TEST NUMBER: P523673

CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	784.7	784.7	784.7	784.7	784.7
2.5°	789.7	783.2	784.7	783.6	780.3
5°	787.5	780.1	782.7	779.9	779.9
7.5°	782.1	774.1	776.6	773.9	773.7
10°	777.2	769.1	771.7	768.9	768.2
12.5°	770.0	762.0	765.1	761.8	761.6
15°	757.2	749.8	753.1	750.3	749.0
17.5°	742.8	734.7	738.7	734.8	734.3
20°	731.8	723.7	727.7	722.2	722.2
22.5°	718.6	710.5	715.0	707.8	707.8
25°	697.4	689.3	692.6	686.4	685.7
27.5°	672.2	664.3	667.7	660.7	660.5
30°	654.1	646.7	650.6	643.0	642.4
32.5°	634.3	627.4	630.3	622.7	622.0
35°	602.5	596.4	598.4	591.5	590.8
37.5°	569.1	562.9	565.1	559.1	558.9
40°	545.4	541.4	542.0	537.1	535.8
42.5°	523.4	518.8	519.4	514.6	514.3
45°	489.7	486.3	486.3	481.4	481.4
47.5°	453.9	451.4	450.6	446.6	446.5
50°	429.2	427.1	426.4	423.0	422.3
52.5°	403.3	402.4	400.0	397.1	397.0
55°	363.1	361.8	358.3	356.2	355.6
57.5°	319.5	316.8	312.9	309.9	310.5
60°	288.2	285.5	279.9	278.5	278.5
62.5°	257.9	254.7	249.1	247.2	248.3
65°	214.6	210.5	205.6	204.3	205.0
67.5°	175.2	171.6	166.3	166.3	165.8
70°	149.9	147.9	143.7	143.7	143.7
72.5°	127.4	126.4	123.4	123.4	122.8
75°	97.7	97.7	96.3	95.6	94.9
77.5°	73.2	73.4	72.8	72.1	70.8
80°	57.8	59.1	58.5	57.8	57.1
82.5°	43.5	44.8	44.7	43.5	43.3
85°	22.7	24.7	24.8	24.8	24.8
87.5°	6.1	8.2	8.8	8.8	9.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)