

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: P561830

Luminaire Tested: **SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

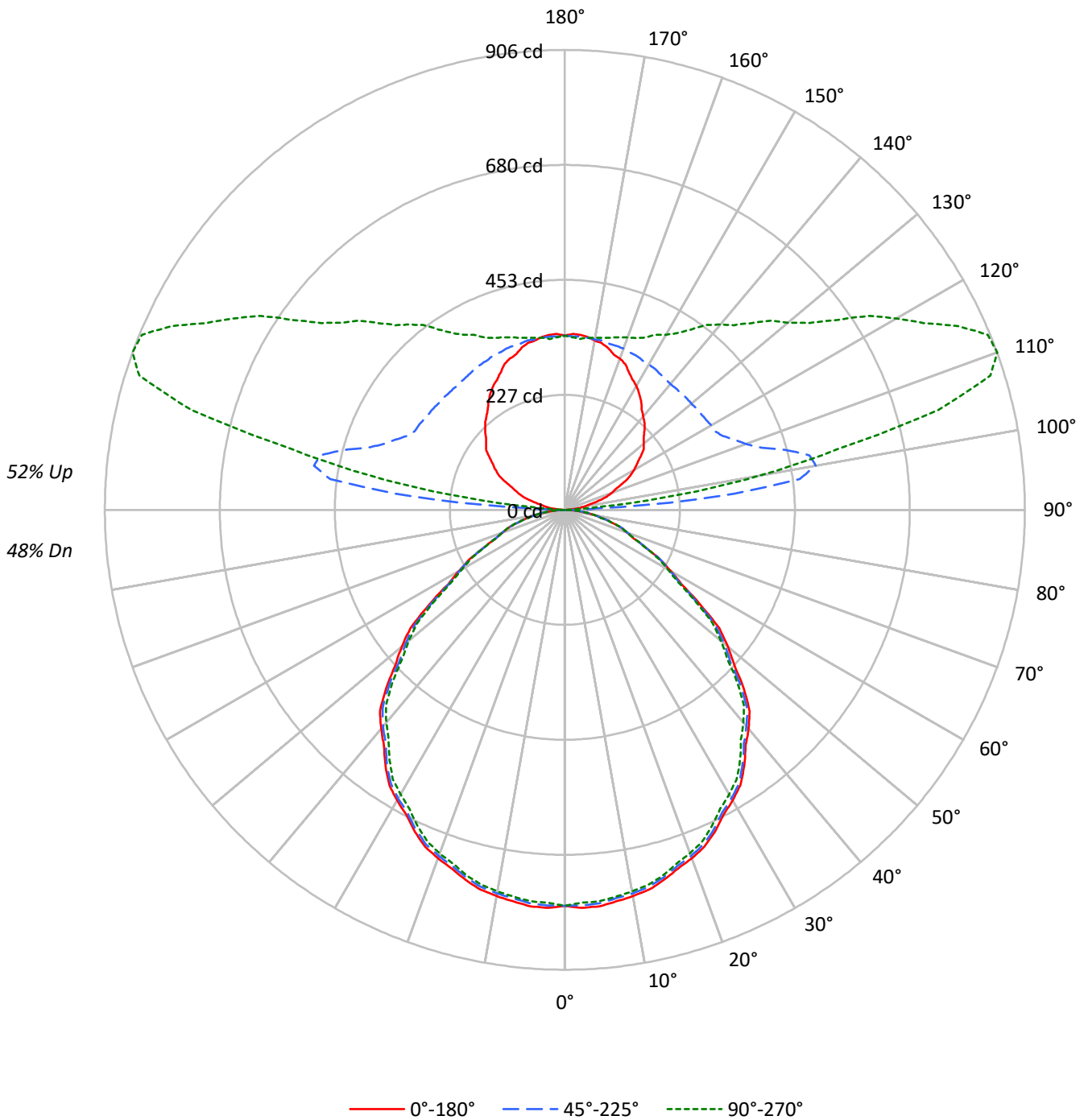
Lumens per Lamp: N/A  
Luminaire Lumens: 4081.4 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

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					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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				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	76	70	66	64	60	57	53	50	48	43	41	39				35	
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34				30	
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29				26	
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26				22	
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20				18	
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18				16	
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

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

	0°	45°	90°
0°	7196	7196	7196
5°	7261	7205	7167
10°	7238	7188	7150
15°	7206	7161	7123
20°	7170	7124	7071
25°	7120	7071	6990
30°	7043	6993	6892
35°	6938	6878	6779
40°	6781	6707	6587
45°	6504	6390	6259
50°	6017	5872	5757
55°	5252	5133	5025
60°	4425	4388	4301
65°	3827	3842	3814
70°	3515	3534	3534
75°	3376	3376	3401
80°	3177	3214	3177
85°	2562	2848	2848



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.8	1.8
10°-20°	211.0	5.2
20°-30°	318.3	7.8
30°-40°	379.2	9.3
40°-50°	373.9	9.2
50°-60°	285.8	7.0
60°-70°	176.8	4.3
70°-80°	100.4	2.5
80°-90°	30.6	0.7
90°-100°	156.4	3.8
100°-110°	444.9	10.9
110°-120°	426.3	10.4
120°-130°	337.4	8.3
130°-140°	270.8	6.6
140°-150°	212.0	5.2
150°-160°	155.1	3.8
160°-170°	96.1	2.4
170°-180°	32.6	0.8
0°-30°	603.1	14.8
0°-40°	982.3	24.1
0°-60°	1642.0	40.2
0°-90°	1949.8	47.8
90°-120°	1027.6	25.2
90°-150°	1847.8	45.3
90°-180°	2132.0	52.2
0°-180°	4081.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	784	776	778	775	774	74
15°	754	747	750	747	746	213
25°	699	691	695	687	687	322
35°	616	609	611	603	602	384
45°	498	492	490	481	480	382
55°	326	321	319	314	312	293
65°	175	174	176	175	175	178
75°	95	95	95	95	95	100
85°	24	26	27	27	27	28
90°	0	0	0	0	0	2
95°	17	67	303	105	65	19
105°	69	105	453	801	761	73
115°	128	155	344	728	855	127
125°	181	201	328	545	651	162
135°	222	240	324	460	520	171
145°	262	275	327	398	434	163
155°	299	306	335	360	374	138
165°	330	331	339	346	351	93
175°	346	344	342	340	338	33
180°	343	343	343	343	343	

TEST NUMBER: P561830

CATALOG NUMBER: SQ4-PR1-050U-050D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	780.0	780.0	780.0	780.0	780.0
2.5°	784.8	778.0	780.0	778.3	774.6
5°	784.0	775.5	778.0	775.2	773.9
7.5°	778.0	769.5	772.0	769.3	768.5
10°	772.6	764.7	767.2	764.5	763.2
12.5°	766.7	758.3	761.3	758.0	756.7
15°	754.4	746.6	749.7	747.0	745.7
17.5°	741.0	732.6	735.8	732.6	730.9
20°	730.3	722.4	725.6	720.8	720.2
22.5°	718.4	710.5	713.7	707.4	707.3
25°	699.4	690.8	694.6	687.2	686.6
27.5°	676.6	668.8	671.9	664.4	663.6
30°	661.1	653.2	656.4	648.3	646.9
32.5°	643.3	636.0	638.6	630.5	629.8
35°	616.0	608.8	610.7	602.6	601.9
37.5°	585.0	578.4	579.5	570.6	570.0
40°	563.0	556.4	556.9	547.5	546.9
42.5°	538.8	532.2	531.7	522.2	521.6
45°	498.5	491.9	489.7	481.0	479.7
47.5°	452.5	446.0	441.9	434.8	433.9
50°	419.2	412.6	409.1	403.0	401.1
52.5°	383.2	376.6	373.7	368.1	366.1
55°	326.5	321.2	319.1	313.7	312.4
57.5°	272.6	269.1	268.5	263.2	262.7
60°	239.8	237.9	237.8	233.1	233.1
62.5°	211.9	210.4	211.5	208.4	207.9
65°	175.3	174.0	176.0	174.7	174.7
67.5°	146.5	146.5	147.7	147.1	147.1
70°	130.3	130.3	131.0	131.0	131.0
72.5°	115.8	115.3	117.0	117.0	116.5
75°	94.7	94.7	94.7	95.4	95.4
77.5°	73.8	73.9	74.4	74.3	73.8
80°	59.8	60.4	60.5	59.8	59.8
82.5°	45.8	46.5	46.5	46.3	45.8
85°	24.2	25.5	26.9	26.9	26.9
87.5°	7.0	9.1	10.7	10.7	10.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.2	27.7	64.2	18.7	14.1
95°	17.0	67.4	302.7	104.8	64.6
97.5°	31.2	78.9	466.2	333.6	228.6
100°	41.1	85.8	501.7	508.2	391.4
102.5°	52.1	93.1	493.9	650.5	548.5
105°	69.2	104.9	453.4	800.9	761.3
107.5°	86.5	118.5	406.2	843.3	878.5
110°	98.5	128.5	379.0	827.1	906.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	110.0	138.4	360.8	788.7	901.5
115°	128.5	155.3	343.8	728.3	855.3
117.5°	144.8	170.0	333.8	662.4	796.8
120°	157.9	178.9	332.7	624.7	753.5
122.5°	168.3	189.4	330.1	591.6	711.2
125°	181.4	201.1	328.2	544.6	651.1
127.5°	195.6	214.1	327.1	516.5	604.2
130°	202.9	221.4	325.5	496.9	573.4
132.5°	210.7	228.7	325.5	481.6	552.1
135°	221.8	240.3	324.2	460.0	520.0
137.5°	232.3	250.2	324.1	441.7	493.5
140°	240.1	258.6	323.6	426.5	476.2
142.5°	249.0	264.4	325.2	414.4	459.0
145°	261.6	275.0	326.8	398.1	433.8
147.5°	272.4	285.5	329.7	381.7	412.6
150°	281.8	290.8	330.8	376.3	398.0
152.5°	289.1	298.6	331.8	368.9	389.1
155°	298.8	305.8	334.7	359.8	374.5
157.5°	310.8	315.0	335.3	355.7	366.1
160°	317.1	320.3	337.9	352.5	361.4
162.5°	320.7	324.4	338.5	349.8	356.7
165°	330.1	331.4	338.6	345.9	351.0
167.5°	336.5	335.4	341.6	344.9	346.9
170°	338.6	338.0	340.5	341.3	343.8
172.5°	343.3	341.1	342.1	340.2	342.2
175°	345.8	343.9	342.5	340.5	337.9
177.5°	346.8	343.7	342.1	340.0	340.5
180°	343.2	343.2	343.2	343.2	343.2

(END OF REPORT)