

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: P523678

Luminaire Tested: **SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523678  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4489.4 lumens  
Efficiency: N/A  
Efficacy: 124.0 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

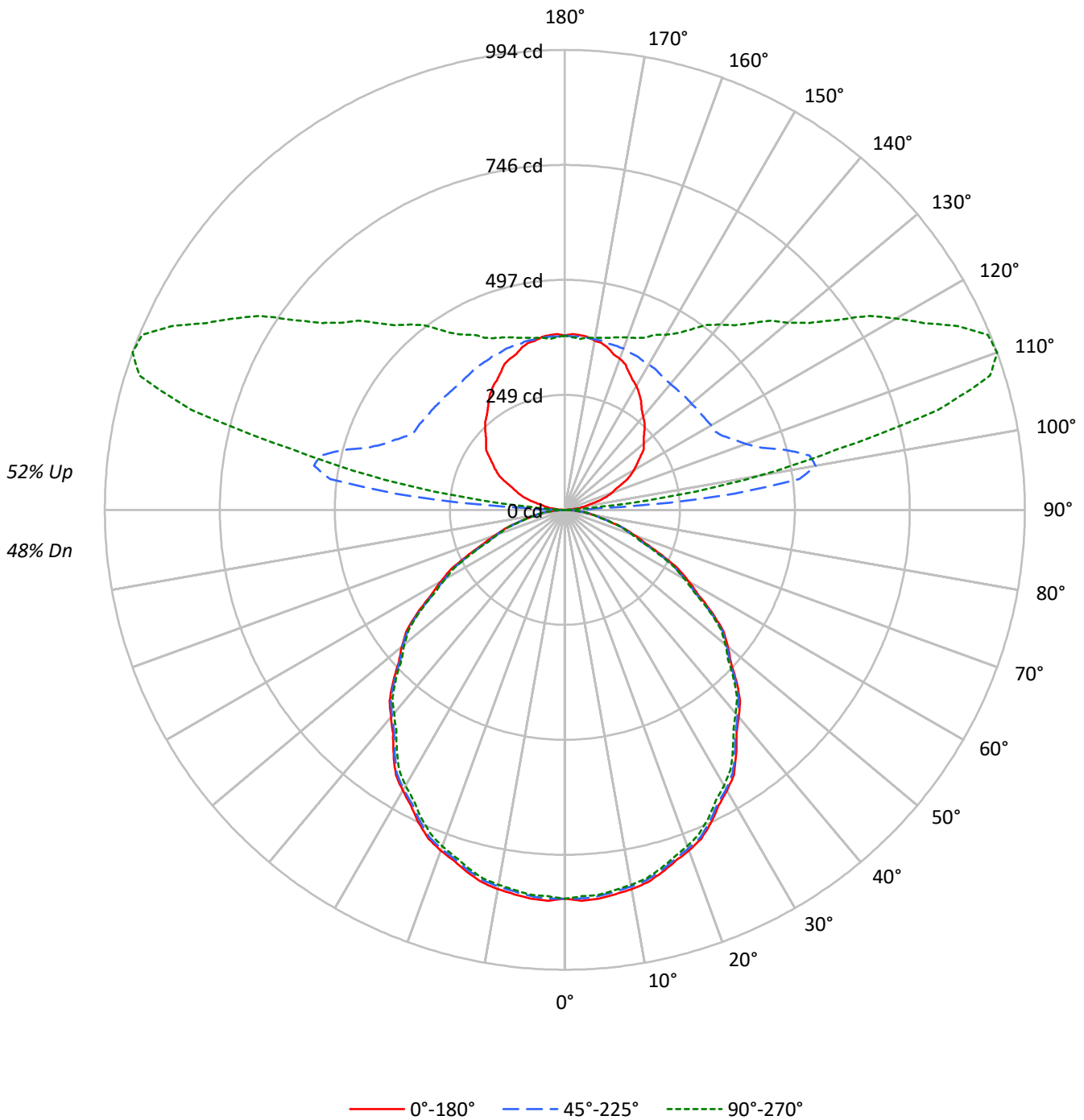
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	7756	7756	7756
5°	7812	7765	7737
10°	7799	7744	7709
15°	7747	7705	7663
20°	7696	7652	7594
25°	7604	7552	7477
30°	7464	7424	7331
35°	7268	7219	7127
40°	7036	6992	6912
45°	6844	6795	6729
50°	6598	6555	6492
55°	6257	6174	6127
60°	5696	5532	5506
65°	5017	4809	4792
70°	4332	4154	4154
75°	3729	3675	3625
80°	3289	3326	3246
85°	2572	2805	2805



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	1.8
10°-20°	227.0	5.1
20°-30°	339.9	7.6
30°-40°	398.7	8.9
40°-50°	400.0	8.9
50°-60°	341.2	7.6
60°-70°	222.5	5.0
70°-80°	111.6	2.5
80°-90°	30.9	0.7
90°-100°	171.5	3.8
100°-110°	488.0	10.9
110°-120°	467.6	10.4
120°-130°	370.1	8.2
130°-140°	297.0	6.6
140°-150°	232.5	5.2
150°-160°	170.1	3.8
160°-170°	105.4	2.3
170°-180°	35.8	0.8
0°-30°	646.4	14.4
0°-40°	1045.1	23.3
0°-60°	1786.3	39.8
0°-90°	2151.4	47.9
90°-120°	1127.1	25.1
90°-150°	2026.7	45.1
90°-180°	2338.0	52.1
0°-180°	4489.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	844	836	838	835	835	80
15°	811	803	807	804	802	229
25°	747	738	742	735	734	343
35°	645	639	641	634	633	403
45°	524	521	521	516	516	404
55°	389	388	384	382	381	346
65°	230	226	220	219	220	229
75°	105	105	103	102	102	113
85°	24	26	26	26	26	29
90°	0	0	0	0	0	2
95°	19	74	332	115	71	21
105°	76	115	497	878	835	80
115°	141	170	377	799	938	139
125°	199	221	360	597	714	178
135°	243	264	356	504	570	188
145°	287	302	358	437	476	179
155°	328	335	367	395	411	151
165°	362	364	371	379	385	102
175°	379	377	376	374	371	36
180°	376	376	376	376	376	

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CATALOG NUMBER: SQ4-PP3-050U-050D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	840.6	840.6	840.6	840.6	840.6
2.5°	845.9	838.9	840.6	839.3	835.8
5°	843.5	835.6	838.4	835.4	835.4
7.5°	837.8	829.1	831.9	828.9	828.8
10°	832.5	823.8	826.6	823.6	822.9
12.5°	824.8	816.2	819.5	816.0	815.8
15°	811.1	803.2	806.7	803.7	802.3
17.5°	795.6	787.0	791.2	787.1	786.5
20°	783.8	775.2	779.4	773.5	773.5
22.5°	769.7	761.0	765.9	758.2	758.2
25°	747.0	738.4	741.8	735.2	734.5
27.5°	720.0	711.5	715.2	707.7	707.5
30°	700.6	692.7	696.9	688.8	688.1
32.5°	679.4	672.0	675.1	667.0	666.3
35°	645.3	638.9	640.9	633.5	632.8
37.5°	609.5	602.9	605.3	598.9	598.6
40°	584.2	579.9	580.5	575.3	573.9
42.5°	560.6	555.7	556.3	551.2	550.9
45°	524.5	520.9	520.8	515.7	515.7
47.5°	486.2	483.5	482.7	478.4	478.3
50°	459.7	457.5	456.7	453.0	452.3
52.5°	432.0	431.0	428.5	425.4	425.2
55°	389.0	387.5	383.8	381.6	380.9
57.5°	342.3	339.4	335.2	332.0	332.5
60°	308.7	305.8	299.8	298.4	298.4
62.5°	276.3	272.8	266.8	264.8	265.9
65°	229.8	225.5	220.3	218.8	219.5
67.5°	187.7	183.8	178.1	178.1	177.5
70°	160.6	158.4	154.0	154.0	154.0
72.5°	136.4	135.4	132.2	132.1	131.6
75°	104.6	104.6	103.1	102.4	101.7
77.5°	78.4	78.7	77.9	77.2	75.9
80°	61.9	63.3	62.6	61.9	61.1
82.5°	46.6	48.0	47.9	46.6	46.4
85°	24.3	26.5	26.5	26.5	26.5
87.5°	6.5	8.8	9.4	9.4	10.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.4	70.4	20.5	15.5
95°	18.6	73.9	332.0	114.9	70.8
97.5°	34.2	86.5	511.3	365.9	250.7
100°	45.1	94.1	550.3	557.4	429.3
102.5°	57.1	102.2	541.7	713.5	601.6
105°	75.8	115.0	497.3	878.4	835.1
107.5°	94.9	130.0	445.5	925.0	963.6
110°	108.1	140.9	415.7	907.2	993.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	151.8	395.7	865.1	988.8
115°	141.0	170.4	377.1	798.9	938.1
117.5°	158.9	186.4	366.1	726.5	874.0
120°	173.2	196.3	364.9	685.1	826.5
122.5°	184.6	207.7	362.1	648.9	780.1
125°	198.9	220.6	359.9	597.3	714.1
127.5°	214.5	234.8	358.8	566.5	662.8
130°	222.5	242.8	357.1	545.0	629.0
132.5°	231.1	250.9	357.1	528.3	605.5
135°	243.3	263.6	355.6	504.5	570.3
137.5°	254.7	274.5	355.5	484.4	541.3
140°	263.3	283.6	354.9	467.8	522.4
142.5°	273.1	290.0	356.6	454.5	503.5
145°	286.9	301.6	358.5	436.7	475.8
147.5°	298.8	313.1	361.6	418.7	452.5
150°	309.1	318.9	362.8	412.7	436.5
152.5°	317.1	327.5	363.9	404.7	426.8
155°	327.7	335.4	367.1	394.6	410.7
157.5°	340.9	345.5	367.8	390.1	401.6
160°	347.8	351.3	370.7	386.6	396.4
162.5°	351.8	355.8	371.2	383.7	391.3
165°	362.1	363.5	371.4	379.4	385.0
167.5°	369.1	367.8	374.7	378.3	380.5
170°	371.4	370.7	373.5	374.3	377.1
172.5°	376.5	374.2	375.2	373.1	375.4
175°	379.2	377.1	375.7	373.5	370.7
177.5°	380.4	377.0	375.2	373.0	373.5
180°	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)