

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: P562039

Luminaire Tested: **SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562039  
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-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 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: 7488.4 lumens  
Efficiency: N/A  
Efficacy: 120.4 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: Semi-Indirect

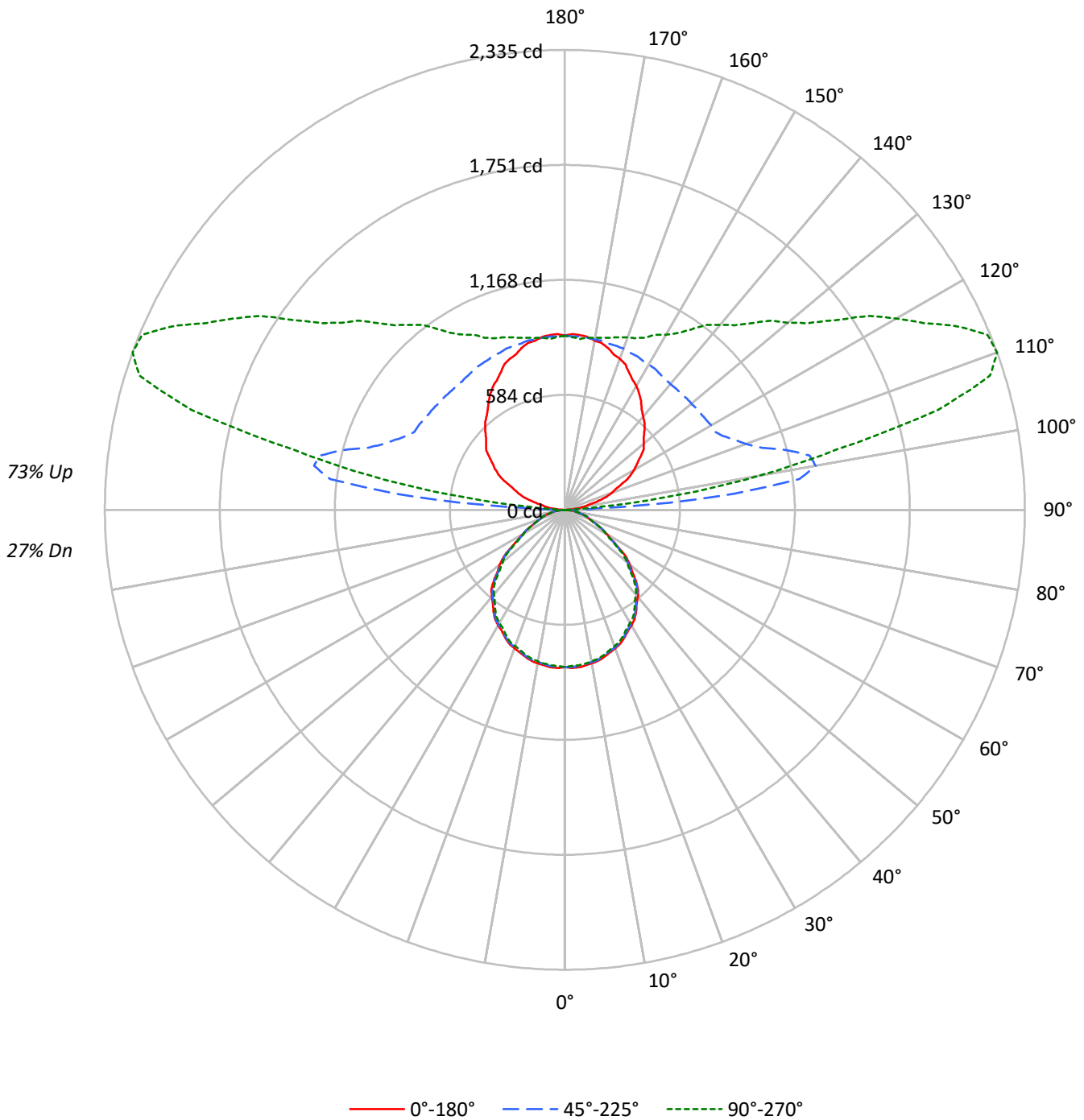
Input Watts (W): 62.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P562039

CATALOG NUMBER: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3500K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562039

CATALOG NUMBER: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3500K)

**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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	30	23
2	85	77	72	67	75	69	65	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	24	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	26	22	20	19	14
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16	12
6	59	48	40	35	53	43	37	32	34	29	26	26	22	20	18	16	14	11
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	26	21	39	29	23	19	23	19	16	18	15	13	13	11	9	7

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

	0°	45°	90°
0°	7369	7369	7369
5°	7435	7378	7340
10°	7411	7360	7322
15°	7379	7333	7294
20°	7342	7295	7241
25°	7290	7241	7158
30°	7211	7160	7058
35°	7105	7043	6943
40°	6943	6869	6745
45°	6660	6543	6409
50°	6162	6013	5895
55°	5377	5257	5146
60°	4532	4493	4405
65°	3919	3934	3906
70°	3601	3617	3617
75°	3458	3458	3483
80°	3252	3289	3252
85°	2625	2911	2911



TEST NUMBER: P562039

CATALOG NUMBER: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3500K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	1.0
10°-20°	216.1	2.9
20°-30°	325.9	4.4
30°-40°	388.3	5.2
40°-50°	382.9	5.1
50°-60°	292.6	3.9
60°-70°	181.1	2.4
70°-80°	102.8	1.4
80°-90°	31.3	0.4
90°-100°	402.9	5.4
100°-110°	1146.3	15.3
110°-120°	1098.3	14.7
120°-130°	869.3	11.6
130°-140°	697.7	9.3
140°-150°	546.2	7.3
150°-160°	399.7	5.3
160°-170°	247.6	3.3
170°-180°	84.0	1.1
0°-30°	617.6	8.2
0°-40°	1005.9	13.4
0°-60°	1681.4	22.5
0°-90°	1996.6	26.7
90°-120°	2647.5	35.4
90°-150°	4760.6	63.6
90°-180°	5492.0	73.3
0°-180°	7488.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	799	799	799	799	799	
5°	803	794	797	794	792	76
15°	772	764	768	765	764	218
25°	716	707	711	704	703	330
35°	631	623	625	617	616	394
45°	510	504	502	492	491	391
55°	334	329	327	321	320	300
65°	180	178	180	179	179	182
75°	97	97	97	98	98	102
85°	25	26	28	28	28	29
90°	0	0	0	0	0	3
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	



TEST NUMBER: P562039

CATALOG NUMBER: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	798.7	798.7	798.7	798.7	798.7
2.5°	803.6	796.6	798.7	796.9	793.2
5°	802.8	794.1	796.6	793.8	792.5
7.5°	796.6	788.0	790.6	787.8	787.0
10°	791.1	783.0	785.6	782.8	781.5
12.5°	785.1	776.5	779.6	776.2	774.9
15°	772.5	764.5	767.7	764.9	763.6
17.5°	758.8	750.2	753.4	750.2	748.5
20°	747.8	739.7	743.0	738.1	737.5
22.5°	735.7	727.6	730.9	724.4	724.2
25°	716.1	707.4	711.3	703.7	703.1
27.5°	692.9	684.8	688.1	680.3	679.5
30°	676.9	668.8	672.1	663.8	662.5
32.5°	658.8	651.2	653.9	645.7	644.9
35°	630.8	623.4	625.3	617.1	616.4
37.5°	599.0	592.3	593.4	584.3	583.6
40°	576.5	569.8	570.3	560.6	560.0
42.5°	551.7	545.0	544.4	534.8	534.1
45°	510.4	503.7	501.5	492.5	491.2
47.5°	463.4	456.7	452.5	445.2	444.3
50°	429.3	422.5	418.9	412.7	410.7
52.5°	392.4	385.7	382.6	376.9	374.9
55°	334.3	329.0	326.8	321.2	319.9
57.5°	279.2	275.5	274.9	269.5	269.0
60°	245.6	243.6	243.5	238.7	238.7
62.5°	217.0	215.5	216.6	213.4	212.8
65°	179.5	178.2	180.2	178.9	178.9
67.5°	150.0	150.0	151.2	150.7	150.7
70°	133.5	133.5	134.1	134.1	134.1
72.5°	118.6	118.1	119.8	119.8	119.3
75°	97.0	97.0	97.0	97.7	97.7
77.5°	75.5	75.7	76.2	76.1	75.5
80°	61.2	61.9	61.9	61.2	61.2
82.5°	46.9	47.6	47.6	47.5	46.9
85°	24.8	26.1	27.5	27.5	27.5
87.5°	7.2	9.3	11.0	11.0	10.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7



TEST NUMBER: P562039

CATALOG NUMBER: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)