

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: P562051

Luminaire Tested: **SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562051  
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-075D-92765-1D-UNV-STD-W-4 (3000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 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: 8283.3 lumens  
Efficiency: N/A  
Efficacy: 112.9 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

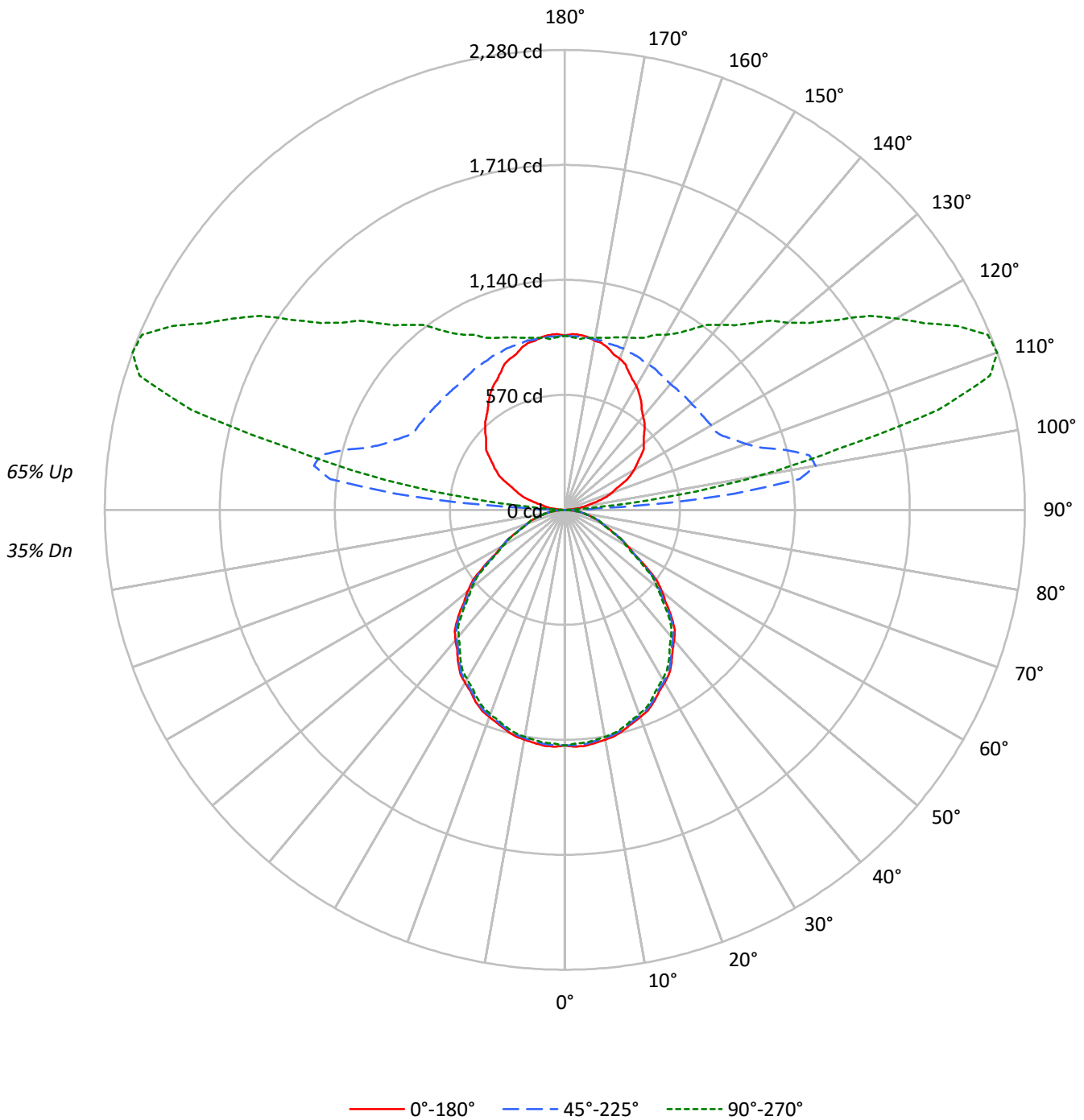
Input Watts (W): 73.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P562051

CATALOG NUMBER: SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562051

CATALOG NUMBER: SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (3000K)

**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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	55	52	45	43	41	34	32	31	26
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	30	28	26	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	26	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	10
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	12	10

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

	0°	45°	90°
0°	10777	10777	10777
5°	10874	10791	10734
10°	10839	10764	10707
15°	10792	10725	10667
20°	10738	10669	10590
25°	10663	10590	10468
30°	10547	10472	10322
35°	10391	10301	10154
40°	10154	10046	9864
45°	9740	9571	9374
50°	9011	8794	8622
55°	7866	7687	7525
60°	6628	6573	6442
65°	5733	5755	5711
70°	5266	5293	5293
75°	5058	5058	5094
80°	4755	4814	4755
85°	3832	4256	4256



TEST NUMBER: P562051

CATALOG NUMBER: SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.5	1.3
10°-20°	316.0	3.8
20°-30°	476.7	5.8
30°-40°	568.0	6.9
40°-50°	560.0	6.8
50°-60°	428.0	5.2
60°-70°	264.8	3.2
70°-80°	150.4	1.8
80°-90°	45.7	0.6
90°-100°	393.4	4.7
100°-110°	1119.5	13.5
110°-120°	1072.5	12.9
120°-130°	848.9	10.2
130°-140°	681.4	8.2
140°-150°	533.4	6.4
150°-160°	390.3	4.7
160°-170°	241.8	2.9
170°-180°	82.0	1.0
0°-30°	903.2	10.9
0°-40°	1471.2	17.8
0°-60°	2459.1	29.7
0°-90°	2920.1	35.3
90°-120°	2585.4	31.2
90°-150°	4649.1	56.1
90°-180°	5363.0	64.7
0°-180°	8283.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1174	1161	1165	1161	1159	111
15°	1130	1118	1123	1119	1117	319
25°	1047	1035	1040	1029	1028	482
35°	923	912	915	902	902	576
45°	746	737	734	720	718	572
55°	489	481	478	470	468	438
65°	263	261	264	262	262	266
75°	142	142	142	143	143	150
85°	36	38	40	40	40	42
90°	0	0	0	0	0	3
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	



TEST NUMBER: P562051

CATALOG NUMBER: SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1175.3	1165.1	1168.1	1165.6	1160.1
5°	1174.1	1161.4	1165.1	1161.0	1159.0
7.5°	1165.1	1152.5	1156.2	1152.2	1151.0
10°	1157.0	1145.2	1149.0	1144.9	1142.9
12.5°	1148.2	1135.6	1140.1	1135.3	1133.3
15°	1129.9	1118.1	1122.8	1118.8	1116.8
17.5°	1109.7	1097.2	1101.9	1097.2	1094.7
20°	1093.7	1081.8	1086.6	1079.5	1078.6
22.5°	1075.9	1064.1	1068.9	1059.4	1059.2
25°	1047.4	1034.6	1040.3	1029.2	1028.3
27.5°	1013.4	1001.6	1006.3	995.0	993.8
30°	990.0	978.2	983.0	970.9	968.9
32.5°	963.5	952.4	956.4	944.3	943.1
35°	922.6	911.8	914.6	902.5	901.5
37.5°	876.1	866.3	867.9	854.6	853.6
40°	843.1	833.3	834.1	820.0	819.0
42.5°	806.9	797.1	796.2	782.1	781.1
45°	746.5	736.7	733.5	720.3	718.4
47.5°	677.7	667.9	661.8	651.1	649.8
50°	627.8	618.0	612.7	603.6	600.7
52.5°	573.9	564.1	559.6	551.3	548.3
55°	489.0	481.1	477.9	469.8	467.8
57.5°	408.3	403.0	402.0	394.2	393.4
60°	359.2	356.2	356.2	349.1	349.1
62.5°	317.3	315.2	316.7	312.1	311.3
65°	262.6	260.6	263.6	261.6	261.6
67.5°	219.3	219.3	221.1	220.3	220.3
70°	195.2	195.2	196.2	196.2	196.2
72.5°	173.5	172.7	175.3	175.2	174.5
75°	141.9	141.9	141.9	142.9	142.9
77.5°	110.5	110.7	111.5	111.3	110.5
80°	89.5	90.5	90.6	89.5	89.5
82.5°	68.6	69.6	69.6	69.4	68.6
85°	36.2	38.2	40.2	40.2	40.2
87.5°	10.5	13.6	16.1	16.1	15.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9

TEST NUMBER: P562051

CATALOG NUMBER: SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)