

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: P562440

Luminaire Tested: **SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562440  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

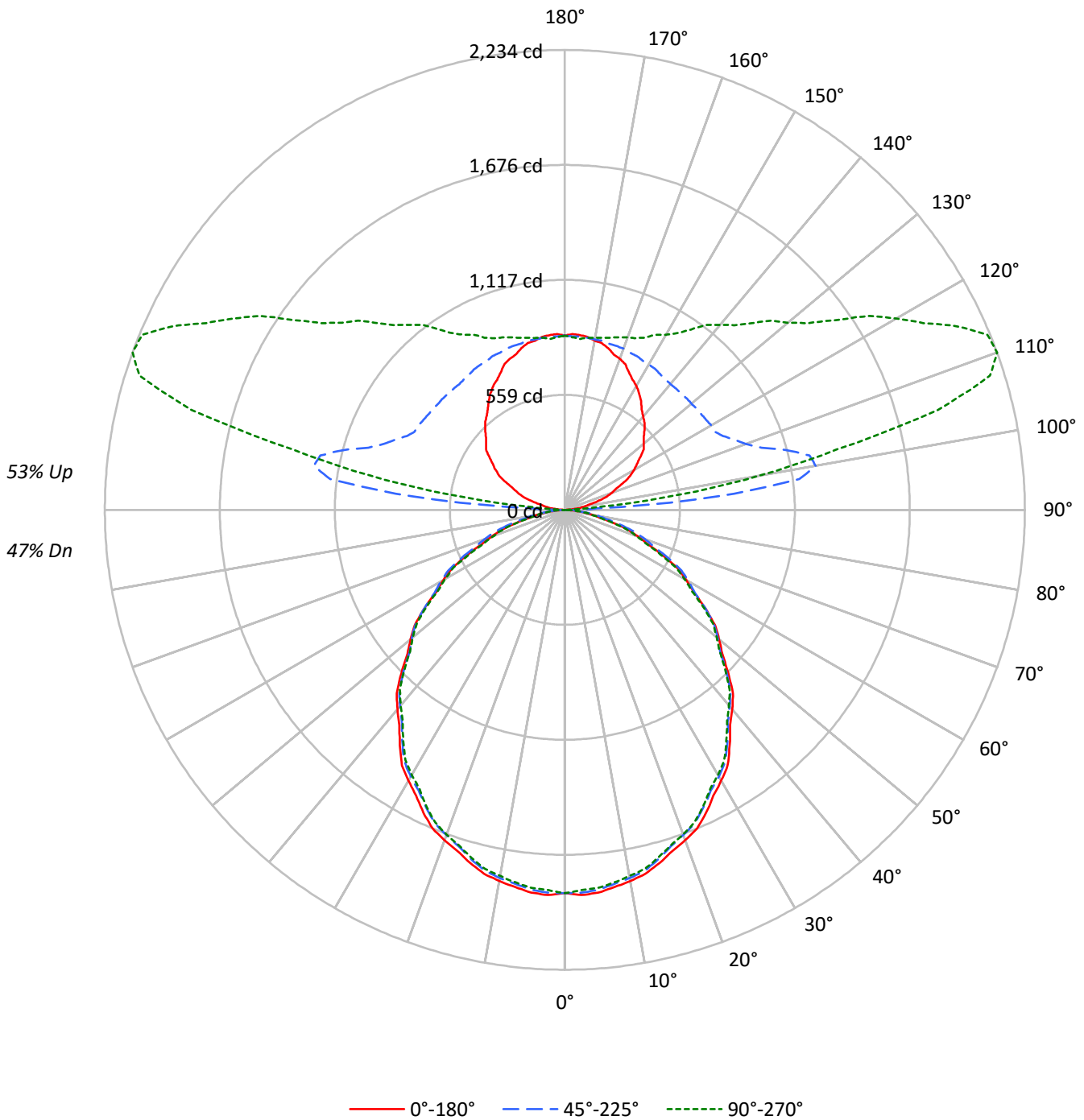
Lumens per Lamp: N/A  
Luminaire Lumens: 9991.7 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 97  
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: P562440  
CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (2700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P562440

CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (2700K)

**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	67	67	67	54	54	54	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	72	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	13
10	47	35	27	23	43	32	26	21	28	23	19	24	19	17	20	16	14	12

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

	0°	45°	90°
0°	17179	17179	17179
5°	17290	17154	17078
10°	17152	17014	16921
15°	16970	16782	16719
20°	16768	16510	16478
25°	16533	16233	16183
30°	16184	15940	15834
35°	15724	15503	15410
40°	15233	14997	14937
45°	14641	14449	14384
50°	14035	13917	13822
55°	13378	13378	13168
60°	12562	12804	12350
65°	11496	12070	11210
70°	10135	11109	9868
75°	8655	9942	8420
80°	6711	8368	6801
85°	4340	6426	5727



TEST NUMBER: P562440

CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (2700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	1.8
10°-20°	495.0	5.0
20°-30°	734.3	7.3
30°-40°	859.2	8.6
40°-50°	855.3	8.6
50°-60°	738.6	7.4
60°-70°	531.7	5.3
70°-80°	278.8	2.8
80°-90°	69.1	0.7
90°-100°	385.4	3.9
100°-110°	1096.7	11.0
110°-120°	1050.8	10.5
120°-130°	831.6	8.3
130°-140°	667.5	6.7
140°-150°	522.6	5.2
150°-160°	382.4	3.8
160°-170°	236.8	2.4
170°-180°	80.4	0.8
0°-30°	1404.6	14.1
0°-40°	2263.8	22.7
0°-60°	3857.8	38.6
0°-90°	4737.4	47.4
90°-120°	2532.9	25.4
90°-150°	4554.7	45.6
90°-180°	5254.0	52.6
0°-180°	9991.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1867	1846	1852	1847	1844	177
15°	1777	1754	1757	1754	1750	501
25°	1624	1597	1595	1585	1590	747
35°	1396	1377	1376	1363	1368	873
45°	1122	1112	1107	1104	1102	866
55°	832	830	832	820	819	742
65°	527	543	553	531	514	522
75°	243	265	279	260	236	260
85°	41	54	61	57	54	54
90°	0	0	0	0	0	3
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	

TEST NUMBER: P562440

CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1862.0	1862.0	1862.0	1862.0	1862.0
2.5°	1872.5	1857.1	1862.0	1857.9	1848.9
5°	1866.9	1846.1	1852.2	1847.2	1844.0
7.5°	1847.9	1828.6	1833.1	1827.8	1825.9
10°	1830.8	1811.6	1816.1	1809.4	1806.2
12.5°	1811.1	1790.6	1795.1	1788.5	1786.5
15°	1776.7	1754.2	1757.0	1753.7	1750.4
17.5°	1736.7	1713.9	1714.4	1709.1	1708.4
20°	1707.8	1683.7	1681.5	1675.1	1678.3
22.5°	1676.3	1650.9	1648.7	1639.6	1644.1
25°	1624.1	1596.9	1594.6	1584.9	1589.7
27.5°	1563.8	1536.8	1536.8	1523.2	1528.3
30°	1519.1	1493.5	1496.2	1479.9	1486.3
32.5°	1471.9	1448.8	1450.2	1434.0	1440.4
35°	1396.1	1376.8	1376.4	1363.4	1368.2
37.5°	1318.7	1301.7	1299.0	1291.5	1292.7
40°	1264.8	1250.4	1245.2	1240.2	1240.2
42.5°	1208.4	1195.3	1190.0	1186.4	1185.1
45°	1122.1	1112.5	1107.4	1104.0	1102.4
47.5°	1036.8	1027.8	1023.4	1021.0	1019.4
50°	977.8	971.3	969.6	964.6	963.0
52.5°	918.7	914.8	913.1	906.8	905.2
55°	831.7	830.1	831.7	820.2	818.6
57.5°	741.2	743.8	749.1	733.6	729.7
60°	680.8	687.2	693.9	675.8	669.3
62.5°	619.1	629.4	638.8	617.9	609.0
65°	526.6	542.6	552.9	531.1	513.5
67.5°	437.4	457.3	469.5	446.1	426.2
70°	375.7	398.1	411.8	388.3	365.8
72.5°	321.9	346.9	358.0	335.8	313.3
75°	242.8	265.3	278.9	260.3	236.2
77.5°	172.3	193.4	204.7	188.5	168.6
80°	126.3	148.8	157.5	144.0	128.0
82.5°	89.6	108.2	114.2	106.1	95.2
85°	41.0	53.8	60.7	57.3	54.1
87.5°	10.5	19.5	24.9	25.0	26.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7

TEST NUMBER: P562440

CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)