

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: P562441

Luminaire Tested: **SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562441  
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 (3000K)  
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 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

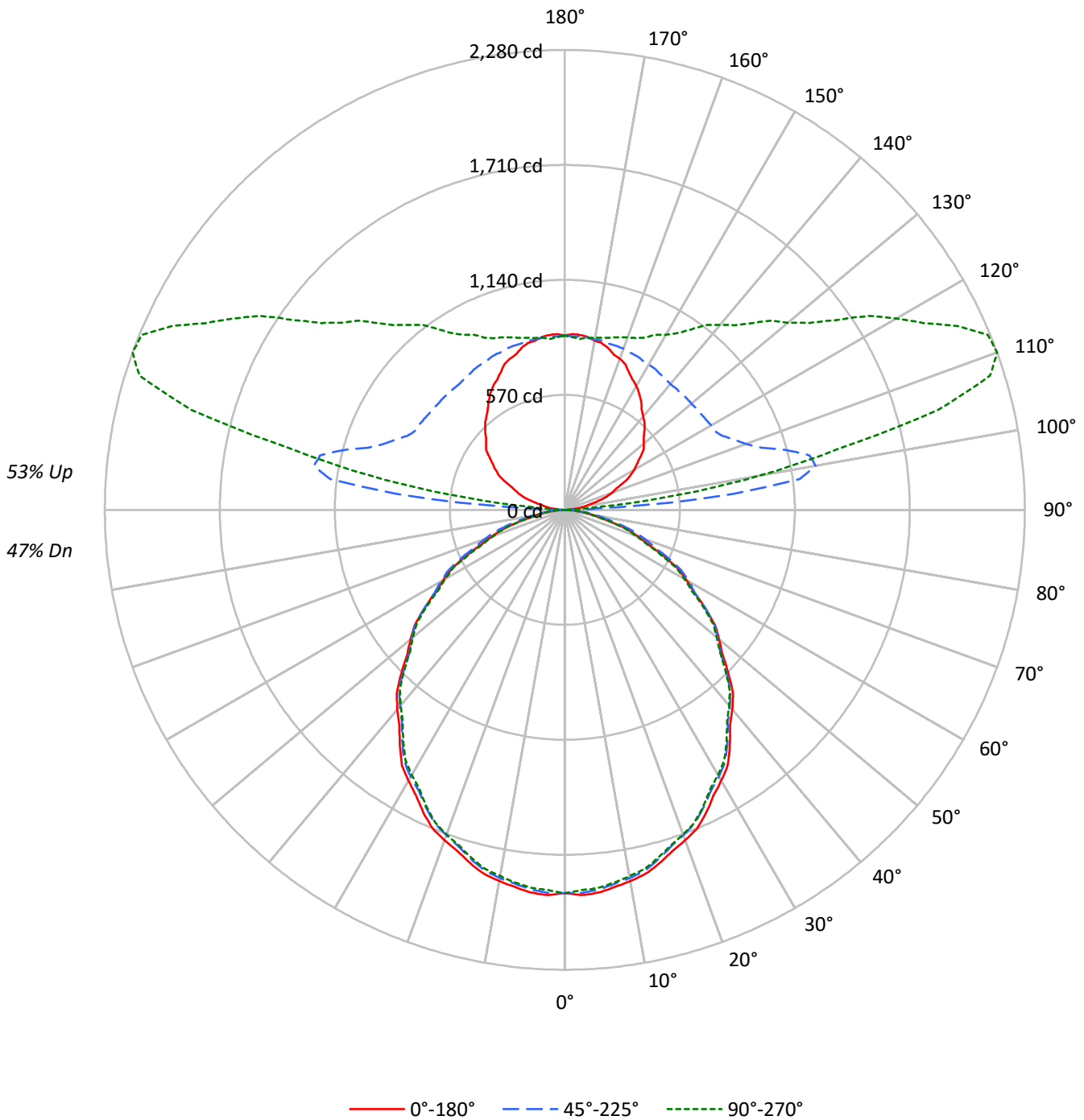
Lumens per Lamp: N/A  
Luminaire Lumens: 10198.8 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 97.2  
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	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°	17535	17535	17535
5°	17649	17509	17432
10°	17508	17366	17273
15°	17322	17130	17066
20°	17115	16852	16819
25°	16876	16569	16518
30°	16519	16270	16162
35°	16050	15824	15730
40°	15550	15308	15246
45°	14945	14748	14683
50°	14325	14204	14108
55°	13656	13656	13441
60°	12823	13070	12607
65°	11734	12319	11442
70°	10345	11338	10073
75°	8833	10149	8595
80°	6849	8544	6939
85°	4435	6563	5854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.0	1.8
10°-20°	505.3	5.0
20°-30°	749.5	7.3
30°-40°	877.0	8.6
40°-50°	873.1	8.6
50°-60°	753.9	7.4
60°-70°	542.7	5.3
70°-80°	284.6	2.8
80°-90°	70.6	0.7
90°-100°	393.4	3.9
100°-110°	1119.5	11.0
110°-120°	1072.5	10.5
120°-130°	848.9	8.3
130°-140°	681.4	6.7
140°-150°	533.4	5.2
150°-160°	390.3	3.8
160°-170°	241.8	2.4
170°-180°	82.0	0.8
0°-30°	1433.8	14.1
0°-40°	2310.7	22.7
0°-60°	3937.8	38.6
0°-90°	4835.6	47.4
90°-120°	2585.4	25.4
90°-150°	4649.1	45.6
90°-180°	5363.0	52.6
0°-180°	10198.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1906	1884	1890	1885	1882	180
15°	1814	1791	1793	1790	1787	511
25°	1658	1630	1628	1618	1623	762
35°	1425	1405	1405	1392	1397	891
45°	1145	1136	1130	1127	1125	884
55°	849	847	849	837	836	757
65°	538	554	564	542	524	533
75°	248	271	285	266	241	266
85°	42	55	62	58	55	55
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	

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CATALOG NUMBER: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1900.6	1900.6	1900.6	1900.6	1900.6
2.5°	1911.3	1895.6	1900.6	1896.4	1887.2
5°	1905.6	1884.3	1890.5	1885.4	1882.2
7.5°	1886.2	1866.5	1871.1	1865.7	1863.7
10°	1868.8	1849.1	1853.7	1846.9	1843.7
12.5°	1848.7	1827.7	1832.3	1825.5	1823.6
15°	1813.5	1790.6	1793.4	1790.0	1786.7
17.5°	1772.7	1749.4	1749.9	1744.5	1743.9
20°	1743.2	1718.6	1716.4	1709.8	1713.0
22.5°	1711.0	1685.2	1682.9	1673.6	1678.2
25°	1657.8	1629.9	1627.6	1617.7	1622.6
27.5°	1596.2	1568.7	1568.7	1554.8	1560.0
30°	1550.6	1524.4	1527.2	1510.6	1517.1
32.5°	1502.4	1478.8	1480.3	1463.7	1470.2
35°	1425.0	1405.4	1404.9	1391.6	1396.6
37.5°	1346.0	1328.6	1325.9	1318.2	1319.5
40°	1291.1	1276.3	1271.0	1265.9	1265.9
42.5°	1233.5	1220.0	1214.7	1211.0	1209.7
45°	1145.4	1135.6	1130.3	1126.9	1125.3
47.5°	1058.3	1049.1	1044.6	1042.2	1040.6
50°	998.0	991.5	989.6	984.6	982.9
52.5°	937.7	933.8	932.0	925.6	924.0
55°	849.0	847.3	849.0	837.2	835.6
57.5°	756.6	759.2	764.6	748.8	744.8
60°	694.9	701.5	708.3	689.8	683.2
62.5°	632.0	642.4	652.1	630.8	621.6
65°	537.5	553.9	564.3	542.1	524.1
67.5°	446.4	466.7	479.2	455.3	435.0
70°	383.5	406.4	420.3	396.3	373.4
72.5°	328.5	354.1	365.4	342.8	319.8
75°	247.8	270.8	284.7	265.7	241.1
77.5°	175.8	197.4	209.0	192.4	172.1
80°	128.9	151.9	160.8	147.0	130.6
82.5°	91.4	110.4	116.5	108.3	97.1
85°	41.9	55.0	62.0	58.5	55.3
87.5°	10.7	19.9	25.5	25.5	26.8
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

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**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)