

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: P562131

Luminaire Tested: **SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562131  
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-PR1-150U-125D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

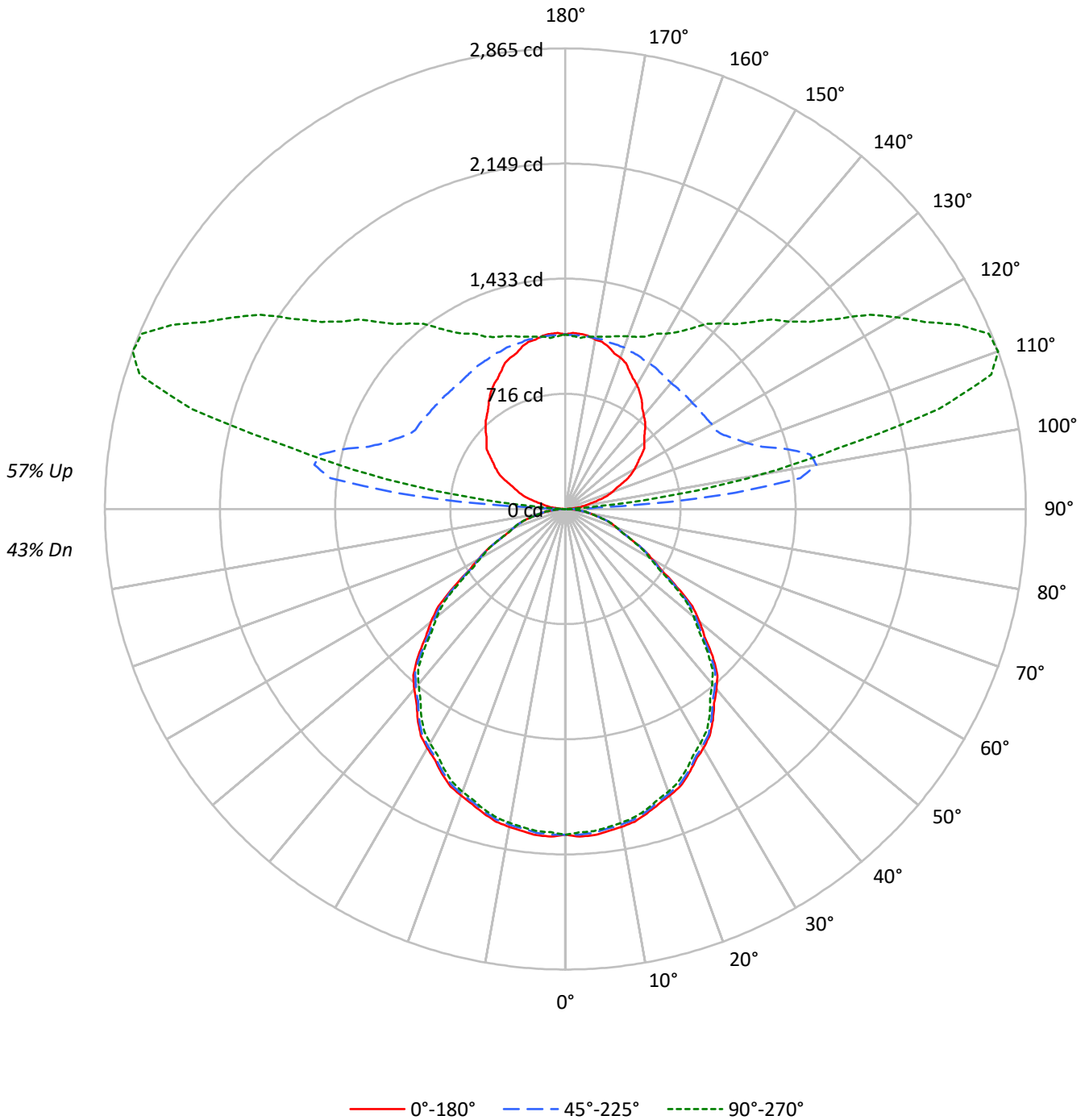
Lumens per Lamp: N/A  
Luminaire Lumens: 11807.3 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 107  
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	89	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23
5	68	56	48	43	62	52	45	40	43	38	34	36	32	29	28	26	23	20
6	62	50	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	34	29	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	18	16	14	12

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

	0°	45°	90°
0°	18703	18703	18703
5°	18872	18727	18629
10°	18812	18681	18582
15°	18729	18612	18512
20°	18635	18515	18378
25°	18504	18379	18166
30°	18304	18174	17914
35°	18033	17877	17621
40°	17623	17434	17118
45°	16905	16609	16267
50°	15639	15263	14962
55°	13650	13341	13060
60°	11501	11405	11180
65°	9948	9988	9911
70°	9137	9185	9185
75°	8776	8776	8837
80°	8257	8347	8257
85°	6659	7389	7389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.7	1.6
10°-20°	548.5	4.6
20°-30°	827.3	7.0
30°-40°	985.7	8.3
40°-50°	971.8	8.2
50°-60°	742.7	6.3
60°-70°	459.6	3.9
70°-80°	261.1	2.2
80°-90°	79.4	0.7
90°-100°	494.4	4.2
100°-110°	1406.7	11.9
110°-120°	1347.8	11.4
120°-130°	1066.7	9.0
130°-140°	856.2	7.3
140°-150°	670.3	5.7
150°-160°	490.5	4.2
160°-170°	303.8	2.6
170°-180°	103.1	0.9
0°-30°	1567.5	13.3
0°-40°	2553.2	21.6
0°-60°	4267.7	36.1
0°-90°	5067.8	42.9
90°-120°	3249.0	27.5
90°-150°	5842.2	49.5
90°-180°	6740.0	57.1
0°-180°	11807.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2027	2027	2027	2027	2027	
5°	2038	2016	2022	2015	2012	193
15°	1961	1940	1949	1942	1938	553
25°	1818	1796	1805	1786	1784	836
35°	1601	1582	1587	1566	1564	999
45°	1296	1278	1273	1250	1247	993
55°	849	835	829	815	812	760
65°	456	452	458	454	454	462
75°	246	246	246	248	248	260
85°	63	66	70	70	70	73
90°	0	0	0	0	0	5
95°	54	213	957	331	204	61
105°	219	332	1434	2532	2407	231
115°	406	491	1087	2303	2704	400
125°	573	636	1038	1722	2059	513
135°	701	760	1025	1454	1644	541
145°	827	870	1033	1259	1372	517
155°	945	967	1058	1138	1184	437
165°	1044	1048	1070	1094	1110	294
175°	1093	1087	1083	1076	1068	104
180°	1085	1085	1085	1085	1085	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2027.2	2027.2	2027.2	2027.2	2027.2
2.5°	2039.8	2022.0	2027.2	2022.8	2013.2
5°	2037.7	2015.5	2022.0	2014.9	2011.5
7.5°	2022.0	2000.1	2006.6	1999.6	1997.5
10°	2008.0	1987.5	1994.0	1987.0	1983.5
12.5°	1992.6	1970.8	1978.7	1970.2	1966.8
15°	1960.8	1940.4	1948.6	1941.6	1938.1
17.5°	1925.9	1904.1	1912.3	1904.2	1899.7
20°	1898.0	1877.5	1885.8	1873.5	1871.8
22.5°	1867.3	1846.8	1855.0	1838.6	1838.3
25°	1817.7	1795.5	1805.4	1786.2	1784.5
27.5°	1758.6	1738.2	1746.4	1726.8	1724.8
30°	1718.1	1697.6	1705.9	1684.9	1681.5
32.5°	1672.0	1652.9	1659.8	1638.8	1636.8
35°	1601.1	1582.4	1587.2	1566.2	1564.5
37.5°	1520.5	1503.4	1506.2	1483.1	1481.4
40°	1463.2	1446.1	1447.5	1423.0	1421.3
42.5°	1400.4	1383.3	1381.8	1357.4	1355.7
45°	1295.6	1278.5	1272.9	1250.1	1246.7
47.5°	1176.2	1159.1	1148.6	1130.0	1127.6
50°	1089.6	1072.5	1063.4	1047.5	1042.4
52.5°	996.0	978.9	971.2	956.7	951.6
55°	848.6	834.9	829.4	815.3	811.9
57.5°	708.6	699.3	697.7	684.1	682.7
60°	623.3	618.2	618.1	605.9	605.9
62.5°	550.7	547.0	549.7	541.6	540.2
65°	455.7	452.3	457.5	454.0	454.0
67.5°	380.6	380.6	383.8	382.4	382.4
70°	338.7	338.7	340.5	340.5	340.5
72.5°	301.0	299.7	304.2	304.1	302.8
75°	246.2	246.2	246.2	247.9	247.9
77.5°	191.7	192.1	193.5	193.1	191.7
80°	155.4	157.1	157.1	155.4	155.4
82.5°	119.1	120.8	120.8	120.4	119.1
85°	62.9	66.3	69.8	69.8	69.8
87.5°	18.2	23.6	27.9	27.9	26.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	87.5	203.0	59.1	44.6
95°	53.6	213.0	957.1	331.3	204.2
97.5°	98.6	249.5	1474.0	1054.7	722.8
100°	129.9	271.1	1586.2	1606.7	1237.6
102.5°	164.6	294.5	1561.5	2056.6	1734.3
105°	218.6	331.6	1433.6	2532.2	2407.2
107.5°	273.5	374.8	1284.2	2666.3	2777.6
110°	311.5	406.3	1198.4	2615.0	2865.1

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CATALOG NUMBER: SQ4-PR1-150U-125D-92765-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	347.8	437.7	1140.7	2493.7	2850.2
115°	406.4	491.1	1087.0	2302.8	2704.2
117.5°	457.9	537.4	1055.3	2094.2	2519.4
120°	499.2	565.7	1052.0	1975.0	2382.4
122.5°	532.2	598.7	1043.7	1870.4	2248.8
125°	573.4	636.0	1037.5	1721.8	2058.6
127.5°	618.4	676.9	1034.2	1632.9	1910.5
130°	641.5	700.0	1029.3	1571.1	1813.1
132.5°	666.3	723.1	1029.3	1522.8	1745.5
135°	701.3	759.8	1025.2	1454.4	1644.0
137.5°	734.3	791.2	1024.7	1396.5	1560.2
140°	759.1	817.6	1023.1	1348.5	1505.8
142.5°	787.1	835.9	1028.0	1310.1	1451.3
145°	827.1	869.5	1033.4	1258.7	1371.7
147.5°	861.4	902.5	1042.5	1206.8	1304.4
150°	891.1	919.3	1045.8	1189.7	1258.2
152.5°	914.2	944.0	1049.1	1166.5	1230.2
155°	944.7	966.9	1058.2	1137.6	1184.0
157.5°	982.7	996.0	1060.2	1124.5	1157.6
160°	1002.5	1012.6	1068.5	1114.5	1142.7
162.5°	1014.0	1025.7	1070.1	1106.1	1127.9
165°	1043.7	1047.8	1070.5	1093.6	1109.7
167.5°	1063.9	1060.3	1080.0	1090.5	1096.9
170°	1070.5	1068.5	1076.7	1079.0	1087.0
172.5°	1085.4	1078.5	1081.7	1075.6	1082.1
175°	1093.2	1087.2	1082.9	1076.5	1068.5
177.5°	1096.5	1086.8	1081.7	1075.1	1076.7
180°	1085.0	1085.0	1085.0	1085.0	1085.0

(END OF REPORT)