

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: P564607

Luminaire Tested: **SQ4-PW1-025U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564607  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-125D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

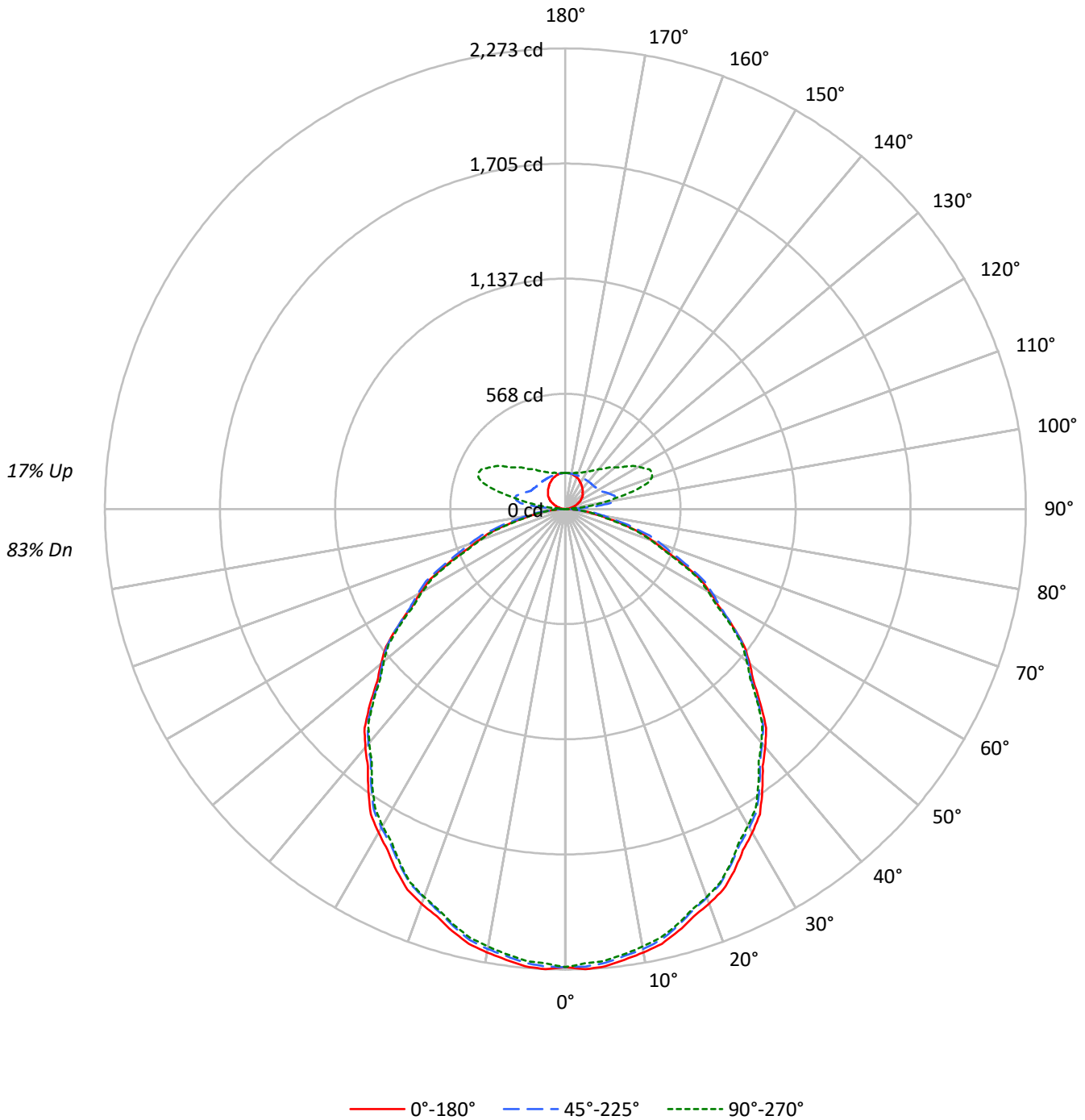
Lumens per Lamp: N/A  
Luminaire Lumens: 6905.3 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 77.9  
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	40	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

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

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13770	13696
15°	13735	13583	13532
20°	13571	13363	13337
25°	13382	13138	13098
30°	13099	12901	12816
35°	12727	12547	12473
40°	12330	12138	12090
45°	11850	11694	11642
50°	11358	11264	11187
55°	10829	10829	10657
60°	10167	10364	9996
65°	9304	9769	9073
70°	8202	8990	7987
75°	7006	8047	6816
80°	5434	6773	5504
85°	3515	5201	4637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	3.1
10°-20°	601.0	8.7
20°-30°	891.4	12.9
30°-40°	1043.1	15.1
40°-50°	1038.4	15.0
50°-60°	896.7	13.0
60°-70°	645.5	9.3
70°-80°	338.5	4.9
80°-90°	84.9	1.2
90°-100°	86.7	1.3
100°-110°	227.9	3.3
110°-120°	236.3	3.4
120°-130°	189.6	2.7
130°-140°	148.7	2.2
140°-150°	114.2	1.7
150°-160°	82.2	1.2
160°-170°	50.3	0.7
170°-180°	17.0	0.2
0°-30°	1705.3	24.7
0°-40°	2748.4	39.8
0°-60°	4683.5	67.8
0°-90°	5752.4	83.3
90°-120°	551.0	8.0
90°-150°	1003.4	14.5
90°-180°	1153.0	16.7
0°-180°	6905.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2266	2241	2249	2242	2239	215
15°	2157	2130	2133	2129	2125	608
25°	1972	1939	1936	1924	1930	907
35°	1695	1672	1671	1655	1661	1060
45°	1362	1351	1344	1340	1338	1051
55°	1010	1008	1010	996	994	901
65°	639	659	671	645	623	634
75°	295	322	339	316	287	316
85°	50	65	74	70	66	66
90°	1	3	9	5	5	3
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2260.5	2260.5	2260.5	2260.5	2260.5
2.5°	2273.3	2254.6	2260.5	2255.5	2244.6
5°	2266.5	2241.2	2248.6	2242.5	2238.6
7.5°	2243.4	2220.0	2225.5	2219.1	2216.7
10°	2222.7	2199.3	2204.8	2196.7	2192.8
12.5°	2198.8	2173.9	2179.3	2171.3	2168.9
15°	2157.0	2129.7	2133.1	2129.0	2125.1
17.5°	2108.4	2080.7	2081.3	2074.9	2074.1
20°	2073.3	2044.1	2041.5	2033.6	2037.5
22.5°	2035.1	2004.3	2001.6	1990.6	1996.1
25°	1971.8	1938.6	1935.9	1924.1	1929.9
27.5°	1898.5	1865.7	1865.8	1849.2	1855.4
30°	1844.3	1813.1	1816.4	1796.7	1804.5
32.5°	1786.9	1758.9	1760.6	1740.9	1748.7
35°	1694.9	1671.5	1671.0	1655.2	1661.1
37.5°	1600.9	1580.3	1577.0	1567.9	1569.4
40°	1535.6	1518.1	1511.7	1505.7	1505.7
42.5°	1467.1	1451.1	1444.8	1440.3	1438.8
45°	1362.3	1350.6	1344.4	1340.4	1338.4
47.5°	1258.7	1247.8	1242.4	1239.6	1237.6
50°	1187.0	1179.2	1177.1	1171.1	1169.1
52.5°	1115.3	1110.7	1108.6	1101.0	1099.0
55°	1009.8	1007.8	1009.8	995.8	993.8
57.5°	899.8	903.0	909.4	890.6	885.9
60°	826.5	834.3	842.5	820.4	812.6
62.5°	751.7	764.1	775.6	750.2	739.3
65°	639.3	658.8	671.2	644.8	623.4
67.5°	531.0	555.1	570.0	541.6	517.4
70°	456.1	483.4	499.9	471.4	444.1
72.5°	390.8	421.1	434.6	407.7	380.4
75°	294.8	322.0	338.6	316.0	286.8
77.5°	209.1	234.8	248.6	228.9	204.7
80°	153.4	180.6	191.2	174.8	155.4
82.5°	108.7	131.3	138.6	128.8	115.5
85°	49.8	65.4	73.7	69.6	65.7
87.5°	13.0	24.3	32.1	31.2	32.8
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)