

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: P564568

Luminaire Tested: **SQ4-PW1-025U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564568  
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-075D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

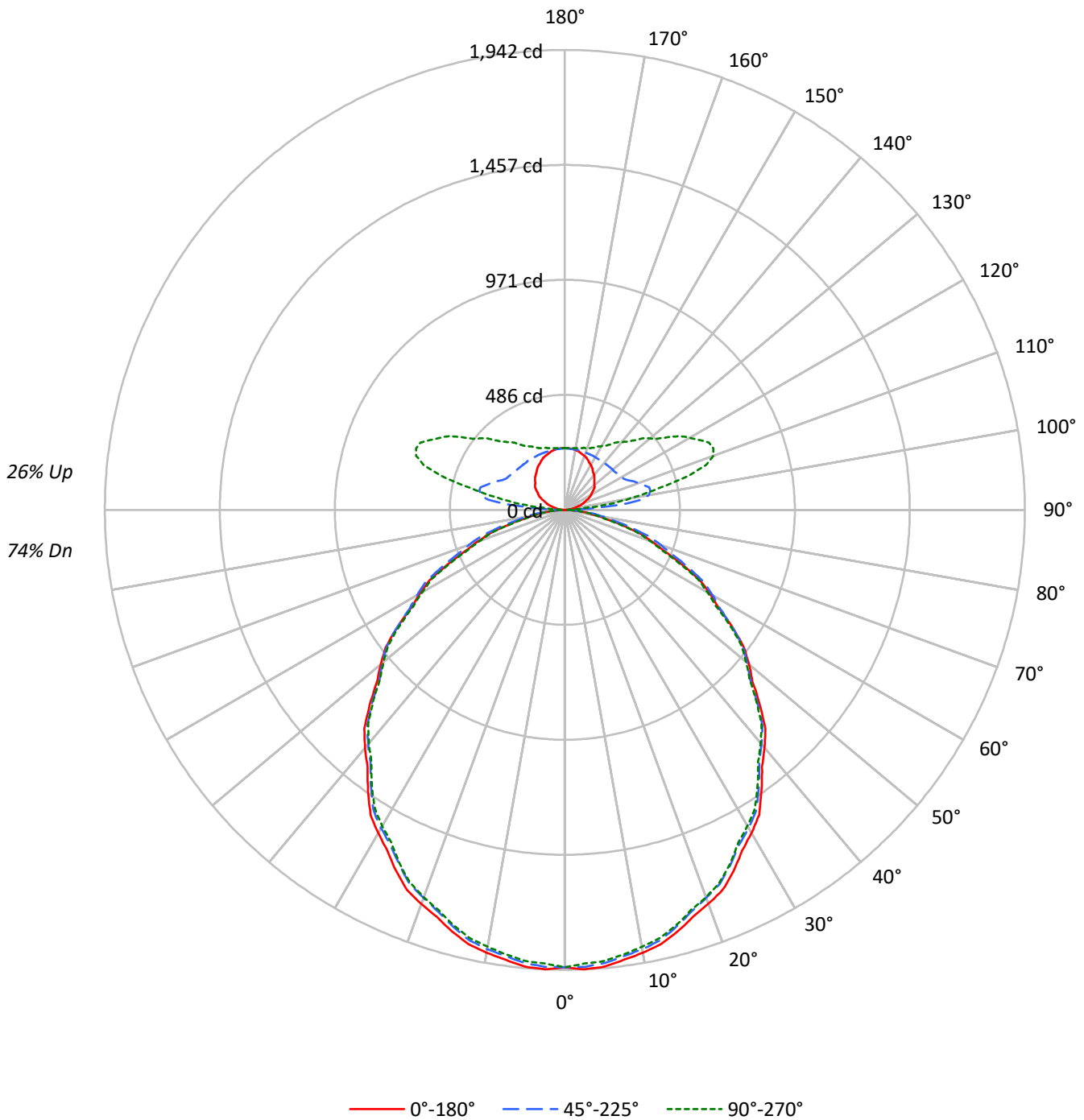
Lumens per Lamp: N/A  
Luminaire Lumens: 6601.5 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.9  
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	74
1	103	99	95	91	98	94	91	88	85	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	64	61	62	59	56	53
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39
5	73	60	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34
6	67	54	46	40	63	52	44	39	48	41	36	44	38	34	40	36	32	30
7	62	49	41	35	59	47	40	34	43	37	32	40	34	30	37	32	28	26
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26	23
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	26	23	21
10	50	38	30	25	48	36	29	25	34	28	24	31	26	22	29	24	21	19

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

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8561	8544
25°	8574	8418	8392
30°	8392	8266	8211
35°	8154	8039	7991
40°	7900	7777	7746
45°	7593	7492	7459
50°	7277	7216	7167
55°	6938	6938	6828
60°	6515	6640	6405
65°	5962	6259	5813
70°	5255	5761	5117
75°	4488	5155	4367
80°	3480	4338	3525
85°	2249	3335	2969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.8	2.8
10°-20°	513.4	7.8
20°-30°	761.5	11.5
30°-40°	891.1	13.5
40°-50°	887.1	13.4
50°-60°	766.0	11.6
60°-70°	551.4	8.4
70°-80°	289.2	4.4
80°-90°	73.1	1.1
90°-100°	126.8	1.9
100°-110°	333.5	5.1
110°-120°	345.8	5.2
120°-130°	277.3	4.2
130°-140°	217.6	3.3
140°-150°	167.0	2.5
150°-160°	120.3	1.8
160°-170°	73.6	1.1
170°-180°	24.9	0.4
0°-30°	1456.8	22.1
0°-40°	2347.8	35.6
0°-60°	4001.0	60.6
0°-90°	4914.6	74.4
90°-120°	806.1	12.2
90°-150°	1468.1	22.2
90°-180°	1687.0	25.6
0°-180°	6601.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1936	1915	1921	1916	1912	183
15°	1843	1819	1822	1819	1815	519
25°	1684	1656	1654	1644	1649	775
35°	1448	1428	1428	1414	1419	905
45°	1164	1154	1148	1145	1143	898
55°	863	861	863	851	849	770
65°	546	563	573	551	532	541
75°	252	275	289	270	245	270
85°	42	56	63	60	56	56
90°	2	5	13	7	7	3
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1931.1	1931.1	1931.1	1931.1	1931.1
2.5°	1942.0	1926.0	1931.1	1926.8	1917.5
5°	1936.2	1914.6	1920.9	1915.7	1912.4
7.5°	1916.5	1896.5	1901.2	1895.7	1893.7
10°	1898.8	1878.8	1883.5	1876.6	1873.2
12.5°	1878.4	1857.1	1861.7	1854.8	1852.8
15°	1842.6	1819.3	1822.2	1818.7	1815.4
17.5°	1801.1	1777.5	1778.0	1772.5	1771.8
20°	1771.2	1746.2	1743.9	1737.2	1740.5
22.5°	1738.5	1712.2	1709.9	1700.5	1705.1
25°	1684.4	1656.1	1653.8	1643.7	1648.7
27.5°	1621.8	1593.8	1593.9	1579.7	1585.0
30°	1575.5	1548.9	1551.7	1534.8	1541.5
32.5°	1526.5	1502.5	1504.0	1487.2	1493.8
35°	1447.9	1427.9	1427.5	1414.0	1419.0
37.5°	1367.6	1350.0	1347.2	1339.4	1340.7
40°	1311.8	1296.8	1291.4	1286.3	1286.3
42.5°	1253.3	1239.6	1234.2	1230.4	1229.1
45°	1163.8	1153.8	1148.4	1145.0	1143.3
47.5°	1075.3	1066.0	1061.3	1058.9	1057.3
50°	1014.0	1007.4	1005.5	1000.4	998.7
52.5°	952.8	948.8	947.0	940.5	938.8
55°	862.6	860.9	862.6	850.7	849.0
57.5°	768.7	771.4	776.9	760.8	756.8
60°	706.1	712.7	719.7	700.8	694.2
62.5°	642.1	652.8	662.5	640.9	631.6
65°	546.2	562.8	573.4	550.8	532.5
67.5°	453.6	474.2	486.9	462.7	442.0
70°	389.6	412.9	427.1	402.7	379.4
72.5°	333.8	359.8	371.2	348.3	325.0
75°	251.8	275.1	289.2	270.0	245.0
77.5°	178.6	200.6	212.3	195.5	174.9
80°	131.0	154.3	163.3	149.3	132.7
82.5°	92.9	112.2	118.4	110.0	98.7
85°	42.5	55.8	63.0	59.5	56.1
87.5°	11.2	21.2	28.5	27.2	28.6
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)