

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: P562540

Luminaire Tested: **SQ4-PC3-025U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562540  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-025U-075D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

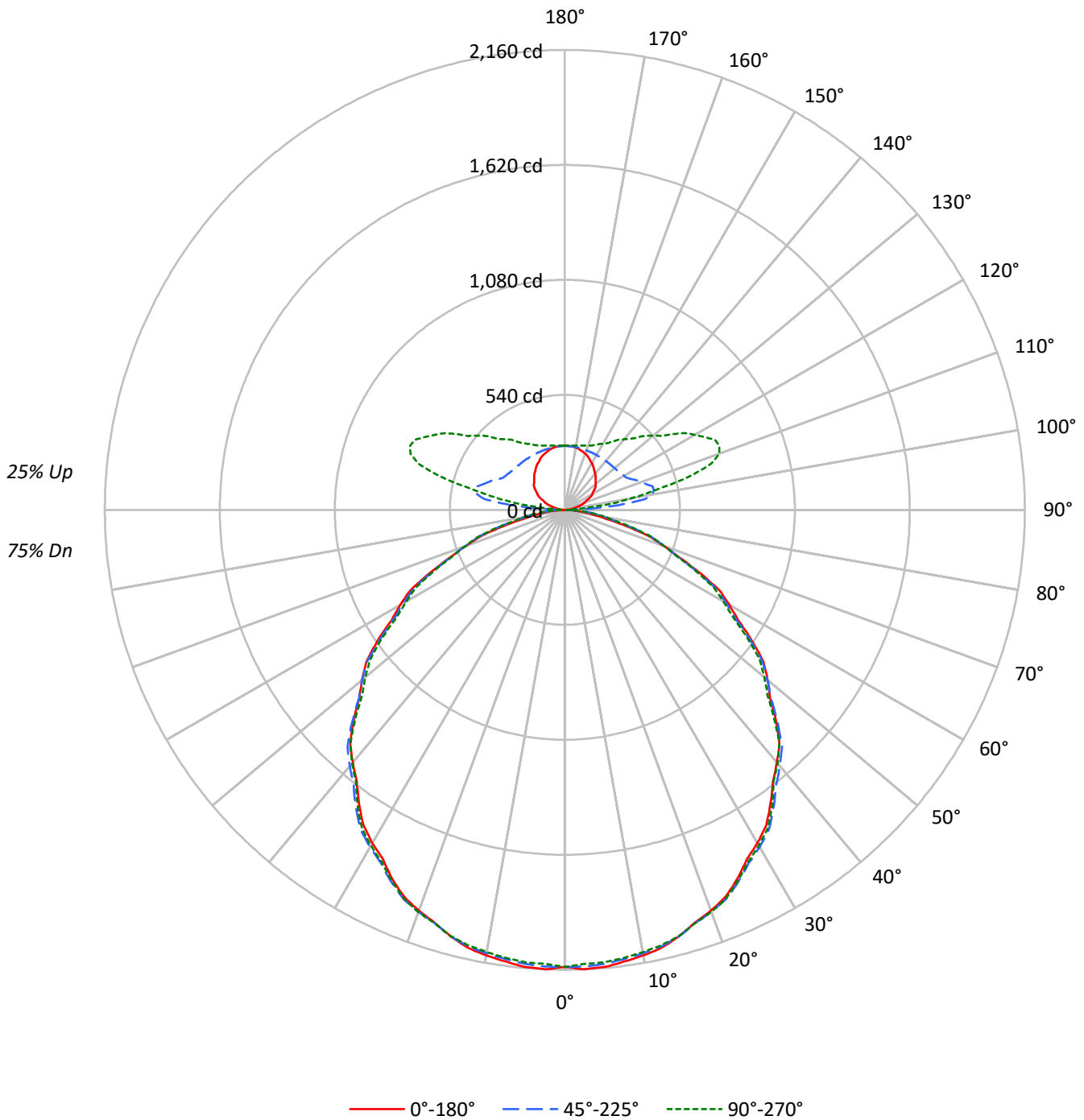
Lumens per Lamp: N/A  
Luminaire Lumens: 7812.4 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

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				
RC	80					70					50					30				
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	108	108	108	108	97	97	97	88	88	88	79	79	79	75		
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63		
2	94	87	80	75	89	83	77	72	75	70	67	68	65	61	62	59	57	53		
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45		
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38		
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33		
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29		
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26		
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23		
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21		
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19		

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

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9877
10°	9955	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9625	9742	9699
35°	9482	9628	9561
40°	9326	9458	9362
45°	9156	9221	9079
50°	8917	8917	8774
55°	8634	8522	8394
60°	8217	8052	7923
65°	7595	7443	7378
70°	6649	6703	6676
75°	5351	5917	5953
80°	3802	5018	5069
85°	2313	4208	4208



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.2	2.6
10°-20°	583.1	7.5
20°-30°	883.0	11.3
30°-40°	1058.6	13.6
40°-50°	1079.4	13.8
50°-60°	942.3	12.1
60°-70°	674.6	8.6
70°-80°	347.5	4.4
80°-90°	89.5	1.1
90°-100°	146.7	1.9
100°-110°	385.7	4.9
110°-120°	400.0	5.1
120°-130°	320.8	4.1
130°-140°	251.7	3.2
140°-150°	193.2	2.5
150°-160°	139.2	1.8
160°-170°	85.1	1.1
170°-180°	28.8	0.4
0°-30°	1669.3	21.4
0°-40°	2727.9	34.9
0°-60°	4749.6	60.8
0°-90°	5861.1	75.0
90°-120°	932.4	11.9
90°-150°	1698.2	21.7
90°-180°	1951.0	25.0
0°-180°	7812.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2155	2134	2141	2135	2133	205
15°	2073	2056	2073	2073	2071	585
25°	1914	1901	1928	1922	1922	881
35°	1684	1680	1710	1698	1698	1053
45°	1404	1400	1413	1395	1392	1080
55°	1074	1060	1060	1044	1044	957
65°	696	680	682	676	676	688
75°	300	314	332	334	334	324
85°	44	67	80	82	80	59
90°	2	6	15	8	8	3
95°	19	76	253	130	89	22
105°	70	105	426	647	604	74
115°	124	150	342	682	778	122
125°	172	192	311	525	620	152
135°	205	225	301	424	480	158
145°	237	252	297	362	390	149
155°	268	276	297	326	336	123
165°	290	293	297	309	313	82
175°	301	301	299	303	303	29
180°	301	301	301	301	301	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2147.0	2147.0	2147.0	2147.0	2147.0
2.5°	2159.7	2141.0	2147.0	2142.0	2134.2
5°	2154.9	2133.5	2141.0	2135.0	2133.0
7.5°	2139.4	2118.0	2127.9	2123.9	2121.9
10°	2125.1	2103.7	2115.2	2111.1	2109.2
12.5°	2106.0	2086.2	2099.3	2095.3	2094.9
15°	2073.4	2055.9	2073.4	2073.4	2071.4
17.5°	2032.5	2016.5	2035.2	2036.4	2035.2
20°	2003.8	1986.3	2009.8	2007.9	2009.8
22.5°	1968.8	1954.5	1979.6	1974.5	1976.4
25°	1914.4	1900.8	1928.3	1922.3	1922.3
27.5°	1850.0	1840.2	1870.2	1863.9	1863.9
30°	1807.0	1797.3	1828.9	1820.9	1820.9
32.5°	1759.3	1752.7	1782.8	1773.2	1773.2
35°	1683.8	1679.9	1709.6	1697.7	1697.7
37.5°	1605.8	1602.4	1629.3	1614.9	1610.2
40°	1548.6	1546.7	1570.5	1554.6	1554.6
42.5°	1491.3	1489.4	1510.0	1490.9	1490.9
45°	1403.5	1399.6	1413.4	1395.4	1391.6
47.5°	1307.7	1303.8	1312.4	1292.9	1291.0
50°	1242.5	1238.6	1242.5	1224.5	1222.6
52.5°	1175.7	1168.7	1169.3	1151.4	1151.0
55°	1073.5	1059.9	1059.6	1043.7	1043.7
57.5°	965.3	947.5	949.0	935.5	933.5
60°	890.6	871.2	872.7	860.7	858.8
62.5°	817.4	794.9	799.5	786.0	785.6
65°	695.8	680.2	681.9	675.9	675.9
67.5°	578.9	564.5	574.9	570.1	569.7
70°	493.0	483.3	497.0	496.9	495.0
72.5°	413.5	413.1	430.2	430.2	431.4
75°	300.2	313.8	332.0	334.0	334.0
77.5°	200.4	224.5	244.5	245.3	244.9
80°	143.1	170.3	188.9	192.8	190.8
82.5°	97.0	125.8	141.1	145.1	143.1
85°	43.7	67.1	79.5	81.5	79.5
87.5°	13.1	27.9	34.9	33.3	30.2
90°	1.9	5.7	15.4	7.7	7.7
92.5°	8.1	39.1	86.5	38.3	24.7
95°	19.3	75.9	252.8	130.3	88.8
97.5°	33.6	83.4	378.2	300.8	221.5
100°	44.4	89.7	416.8	422.4	328.1
102.5°	53.6	95.9	427.6	526.2	445.4
105°	69.5	105.3	426.5	647.4	604.0
107.5°	85.7	118.9	402.2	710.4	721.0
110°	96.5	126.7	382.1	726.6	771.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.3	136.0	363.6	716.4	785.8
115°	123.5	149.9	341.6	681.5	777.7
117.5°	139.3	163.5	326.5	633.1	739.9
120°	148.6	171.2	320.3	600.6	704.4
122.5°	157.9	180.5	315.7	568.1	670.4
125°	171.8	192.5	310.7	525.1	619.5
127.5°	182.9	204.1	306.5	490.4	570.1
130°	189.1	211.8	304.9	468.7	542.3
132.5°	195.3	217.9	303.4	450.0	516.0
135°	204.6	225.3	301.0	423.9	480.5
137.5°	214.2	234.6	300.7	404.4	450.8
140°	221.9	240.8	299.1	388.9	432.3
142.5°	228.1	245.5	299.1	377.9	415.3
145°	237.4	252.5	297.2	361.5	389.8
147.5°	246.6	261.3	297.2	347.9	371.3
150°	252.8	266.0	297.2	340.1	358.9
152.5°	259.0	269.2	297.2	333.8	348.1
155°	268.2	275.8	297.2	326.4	335.8
157.5°	275.2	282.4	297.2	319.7	326.5
160°	279.8	285.5	297.2	316.6	320.3
162.5°	284.5	288.6	297.2	313.5	317.3
165°	289.5	293.2	297.2	308.9	312.6
167.5°	294.1	296.0	299.1	306.9	308.4
170°	297.2	299.1	299.1	306.8	306.8
172.5°	298.7	299.1	299.1	305.3	303.8
175°	301.0	301.0	299.1	303.0	303.0
177.5°	301.0	301.0	299.5	302.6	301.0
180°	301.0	301.0	301.0	301.0	301.0

(END OF REPORT)