

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: P562509

Luminaire Tested: **SQ4-PC3-025U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562509  
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-050D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

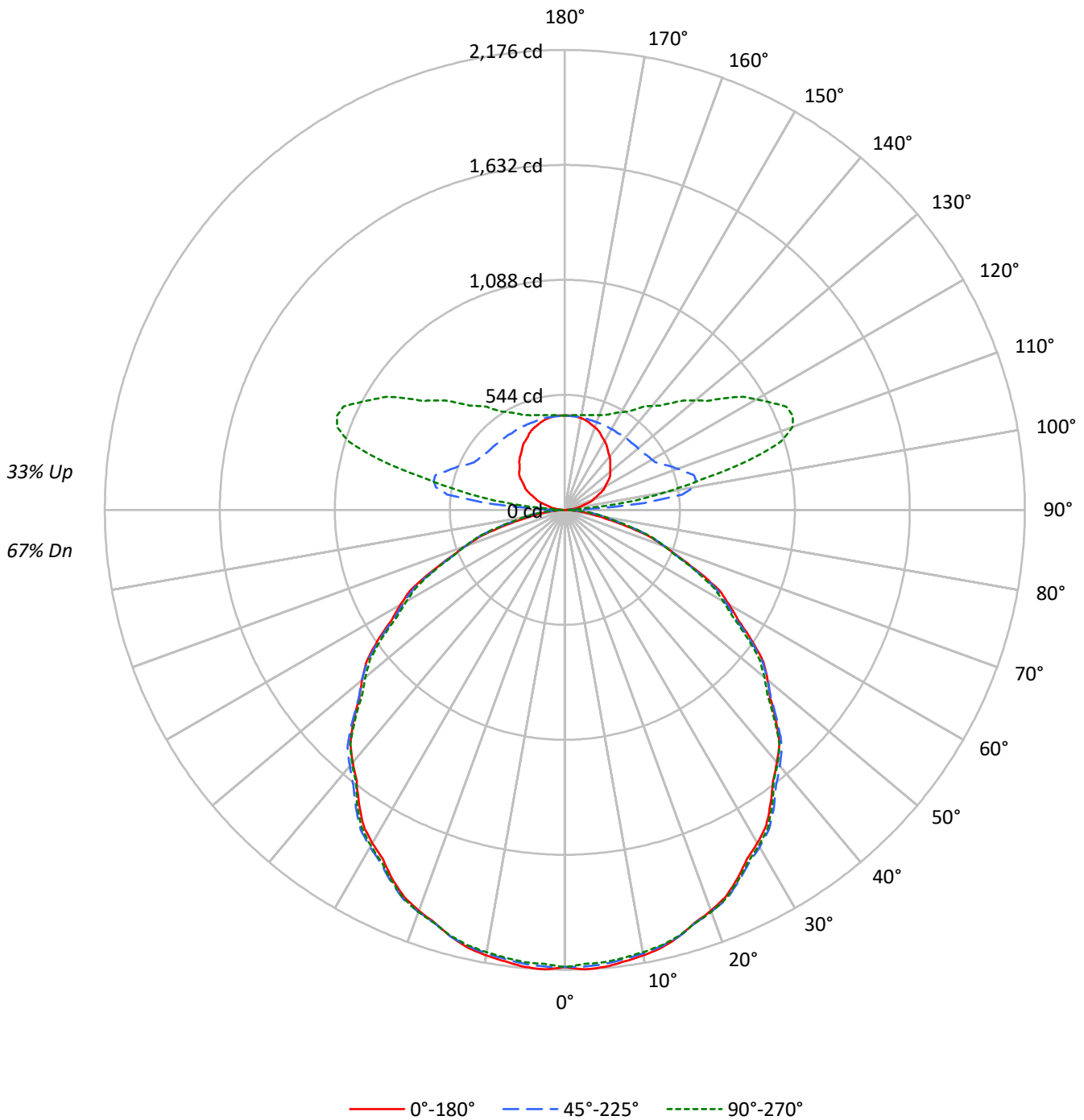
Lumens per Lamp: N/A  
Luminaire Lumens: 8804.0 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 68.8  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

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

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6651	6651	6645
20°	6608	6627	6627
25°	6545	6593	6573
30°	6466	6544	6515
35°	6369	6467	6422
40°	6264	6353	6288
45°	6150	6194	6098
50°	5990	5990	5894
55°	5799	5724	5638
60°	5519	5408	5322
65°	5101	4999	4956
70°	4466	4502	4484
75°	3594	3975	3998
80°	2554	3370	3406
85°	1556	2826	2826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.7	2.3
10°-20°	587.5	6.7
20°-30°	889.7	10.1
30°-40°	1066.6	12.1
40°-50°	1087.6	12.4
50°-60°	949.4	10.8
60°-70°	679.7	7.7
70°-80°	350.1	4.0
80°-90°	90.9	1.0
90°-100°	217.9	2.5
100°-110°	572.8	6.5
110°-120°	594.0	6.7
120°-130°	476.5	5.4
130°-140°	373.8	4.2
140°-150°	286.9	3.3
150°-160°	206.7	2.3
160°-170°	126.4	1.4
170°-180°	42.7	0.5
0°-30°	1681.9	19.1
0°-40°	2748.6	31.2
0°-60°	4785.6	54.4
0°-90°	5906.3	67.1
90°-120°	1384.7	15.7
90°-150°	2521.9	28.6
90°-180°	2898.0	32.9
0°-180°	8804.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2163	2163	2163	2163	2163	
5°	2171	2150	2157	2151	2149	206
15°	2089	2072	2089	2089	2087	589
25°	1929	1915	1943	1937	1937	888
35°	1696	1693	1723	1711	1711	1061
45°	1414	1410	1424	1406	1402	1089
55°	1082	1068	1068	1052	1052	964
65°	701	685	687	681	681	693
75°	302	316	334	336	336	327
85°	44	68	80	82	80	60
90°	3	8	23	12	12	4
95°	29	113	375	194	132	32
105°	103	156	633	962	897	109
115°	183	223	507	1012	1155	181
125°	255	286	461	780	920	226
135°	304	335	447	630	714	235
145°	352	375	441	537	579	221
155°	398	410	441	485	499	183
165°	430	436	441	459	464	121
175°	447	447	444	450	450	42
180°	447	447	447	447	447	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2163.2	2163.2	2163.2	2163.2	2163.2
2.5°	2176.1	2157.3	2163.2	2158.3	2150.4
5°	2171.2	2149.7	2157.2	2151.2	2149.2
7.5°	2155.6	2134.1	2144.0	2140.0	2138.0
10°	2141.2	2119.7	2131.2	2127.1	2125.2
12.5°	2122.0	2102.0	2115.2	2111.2	2110.8
15°	2089.1	2071.5	2089.1	2089.1	2087.1
17.5°	2047.9	2031.8	2050.7	2051.8	2050.7
20°	2019.0	2001.4	2025.0	2023.1	2025.0
22.5°	1983.8	1969.3	1994.6	1989.4	1991.4
25°	1928.9	1915.2	1942.9	1936.9	1936.9
27.5°	1864.0	1854.2	1884.4	1878.0	1878.0
30°	1820.7	1810.9	1842.8	1834.7	1834.7
32.5°	1772.7	1766.0	1796.3	1786.7	1786.7
35°	1696.5	1692.6	1722.6	1710.6	1710.6
37.5°	1618.0	1614.5	1641.7	1627.1	1622.4
40°	1560.3	1558.4	1582.4	1566.3	1566.3
42.5°	1502.6	1500.7	1521.5	1502.2	1502.2
45°	1414.1	1410.2	1424.1	1406.0	1402.1
47.5°	1317.6	1313.7	1322.4	1302.7	1300.7
50°	1251.9	1248.0	1251.9	1233.8	1231.8
52.5°	1184.6	1177.5	1178.2	1160.1	1159.7
55°	1081.6	1067.9	1067.6	1051.6	1051.6
57.5°	972.7	954.6	956.2	942.6	940.6
60°	897.3	877.8	879.3	867.3	865.3
62.5°	823.6	800.9	805.6	792.0	791.6
65°	701.0	685.4	687.0	681.0	681.0
67.5°	583.3	568.8	579.3	574.5	574.1
70°	496.7	487.0	500.7	500.7	498.7
72.5°	416.6	416.2	433.4	433.5	434.7
75°	302.5	316.2	334.5	336.5	336.5
77.5°	201.9	226.2	246.4	247.2	246.8
80°	144.2	171.6	190.3	194.2	192.3
82.5°	97.7	126.7	142.2	146.2	144.2
85°	44.1	67.6	80.1	82.1	80.1
87.5°	13.4	28.6	36.6	34.3	31.1
90°	2.9	8.5	22.9	11.5	11.5
92.5°	12.0	58.0	128.4	56.9	36.7
95°	28.7	112.7	375.4	193.5	131.8
97.5°	49.9	123.8	561.7	446.7	329.0
100°	65.9	133.2	619.0	627.3	487.2
102.5°	79.7	142.4	635.1	781.4	661.4
105°	103.2	156.4	633.4	961.5	897.0
107.5°	127.2	176.6	597.2	1055.0	1070.7
110°	143.3	188.1	567.4	1079.1	1146.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	159.3	201.9	539.9	1063.9	1167.0
115°	183.4	222.6	507.3	1012.0	1154.9
117.5°	206.9	242.8	484.9	940.2	1098.8
120°	220.7	254.3	475.7	891.9	1046.0
122.5°	234.4	268.1	468.9	843.7	995.6
125°	255.1	285.9	461.4	779.8	919.9
127.5°	271.7	303.1	455.1	728.3	846.6
130°	280.9	314.5	452.8	696.0	805.3
132.5°	290.0	323.7	450.5	668.3	766.3
135°	303.8	334.6	447.1	629.5	713.6
137.5°	318.1	348.4	446.5	600.5	669.5
140°	329.6	357.6	444.2	577.5	642.0
142.5°	338.7	364.5	444.2	561.3	616.7
145°	352.5	374.9	441.3	536.9	578.9
147.5°	366.3	388.1	441.3	516.6	551.4
150°	375.4	395.0	441.3	505.0	533.1
152.5°	384.6	399.7	441.3	495.7	517.0
155°	398.4	409.6	441.3	484.6	498.7
157.5°	408.7	419.3	441.3	474.8	484.9
160°	415.5	424.0	441.3	470.1	475.7
162.5°	422.4	428.6	441.3	465.5	471.1
165°	429.9	435.5	441.3	458.7	464.3
167.5°	436.8	439.6	444.2	455.7	458.0
170°	441.3	444.1	444.2	455.7	455.7
172.5°	443.6	444.2	444.2	453.3	451.1
175°	447.1	447.1	444.2	449.9	449.9
177.5°	447.1	447.1	444.8	449.3	447.1
180°	447.1	447.1	447.1	447.1	447.1

(END OF REPORT)