

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: P561454

Luminaire Tested: **SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561454  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-125D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

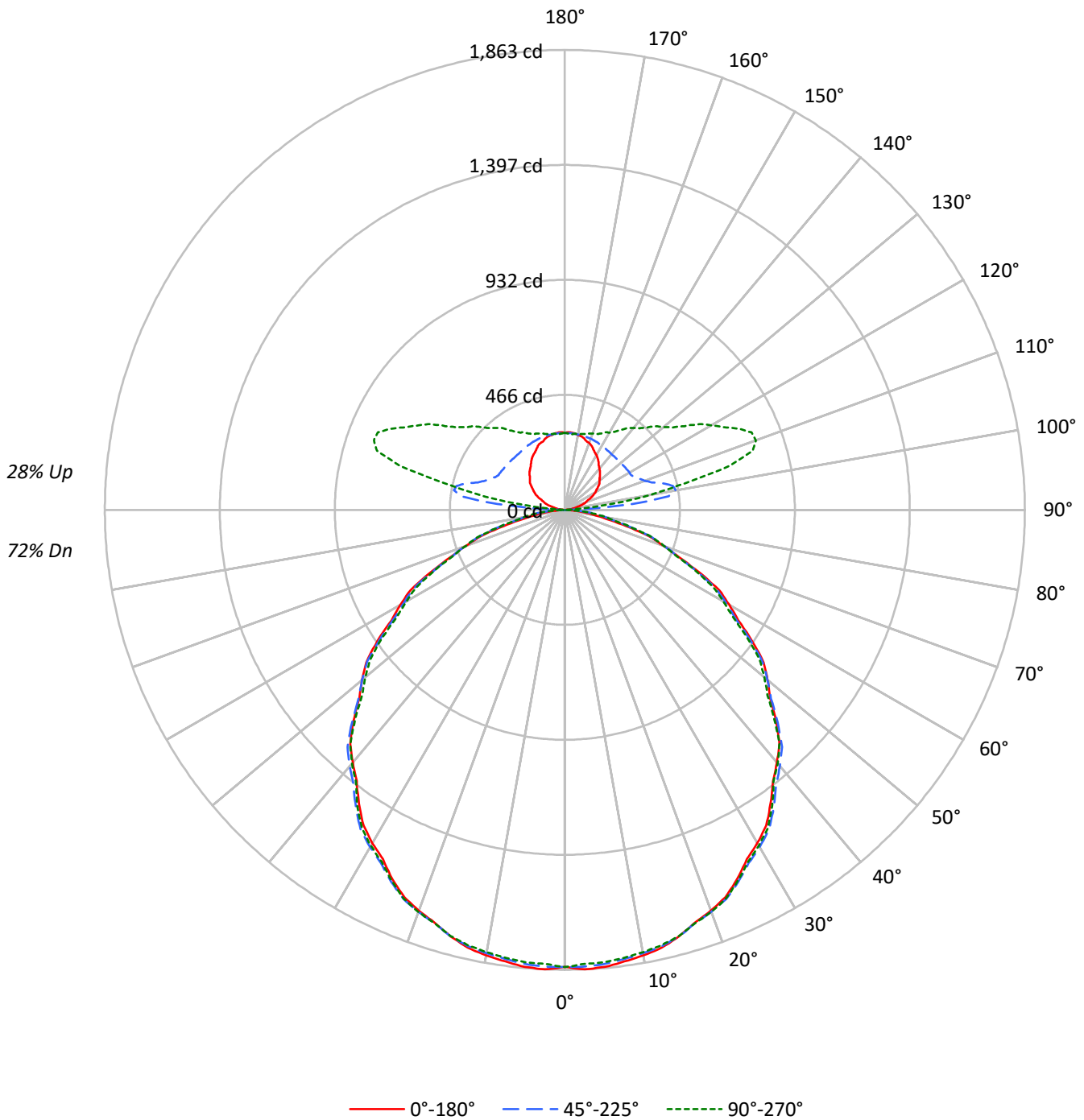
Lumens per Lamp: N/A  
Luminaire Lumens: 6990.9 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 69.8  
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	103	98	94	91	97	93	90	87	84	82	79	76	74	72	68	66	65	61
2	94	86	80	74	89	82	76	71	74	69	66	67	63	60	60	57	55	51
3	86	76	68	62	81	72	65	60	65	60	55	59	54	51	53	49	47	43
4	78	67	59	52	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	44	52	45	41	47	42	38	43	38	35	32
6	66	54	45	39	63	51	44	38	47	40	35	43	37	33	39	34	31	28
7	61	49	40	34	58	46	39	33	42	36	31	39	33	29	35	31	27	25
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	28	24	22
9	53	40	33	27	50	39	32	27	36	29	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

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

	0°	45°	90°
0°	17086	17086	17086
5°	17214	17103	17040
10°	17173	17092	17044
15°	17082	17082	17066
20°	16970	17021	17021
25°	16810	16932	16879
30°	16606	16806	16733
35°	16359	16609	16494
40°	16088	16315	16150
45°	15796	15908	15661
50°	15383	15383	15136
55°	14893	14700	14480
60°	14175	13891	13670
65°	13101	12839	12728
70°	11470	11564	11519
75°	9229	10209	10270
80°	6562	8655	8745
85°	3991	7262	7262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	2.5
10°-20°	502.9	7.2
20°-30°	761.6	10.9
30°-40°	913.1	13.1
40°-50°	931.1	13.3
50°-60°	812.8	11.6
60°-70°	581.9	8.3
70°-80°	299.7	4.3
80°-90°	75.8	1.1
90°-100°	142.1	2.0
100°-110°	404.2	5.8
110°-120°	387.3	5.5
120°-130°	306.6	4.4
130°-140°	246.0	3.5
140°-150°	192.6	2.8
150°-160°	140.9	2.0
160°-170°	87.3	1.2
170°-180°	29.6	0.4
0°-30°	1439.9	20.6
0°-40°	2353.0	33.7
0°-60°	4096.8	58.6
0°-90°	5054.1	72.3
90°-120°	933.6	13.4
90°-150°	1678.9	24.0
90°-180°	1937.0	27.7
0°-180°	6990.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1859	1840	1847	1842	1840	176
15°	1788	1773	1788	1788	1787	504
25°	1651	1640	1663	1658	1658	760
35°	1452	1449	1475	1464	1464	908
45°	1211	1207	1219	1204	1200	932
55°	926	914	914	900	900	825
65°	600	587	588	583	583	594
75°	259	271	286	288	288	280
85°	38	58	69	70	69	51
90°	0	0	0	0	0	2
95°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1851.9	1851.9	1851.9	1851.9	1851.9
2.5°	1862.9	1846.8	1851.9	1847.6	1840.9
5°	1858.7	1840.3	1846.7	1841.6	1839.9
7.5°	1845.4	1826.9	1835.4	1832.0	1830.3
10°	1833.0	1814.6	1824.4	1821.0	1819.3
12.5°	1816.6	1799.5	1810.7	1807.3	1807.0
15°	1788.4	1773.4	1788.4	1788.4	1786.7
17.5°	1753.1	1739.4	1755.5	1756.5	1755.5
20°	1728.4	1713.3	1733.6	1731.9	1733.6
22.5°	1698.2	1685.8	1707.5	1703.1	1704.8
25°	1651.3	1639.5	1663.3	1658.1	1658.1
27.5°	1595.7	1587.3	1613.2	1607.7	1607.7
30°	1558.7	1550.3	1577.5	1570.7	1570.7
32.5°	1517.5	1511.8	1537.8	1529.5	1529.5
35°	1452.4	1449.0	1474.6	1464.4	1464.4
37.5°	1385.1	1382.1	1405.4	1392.9	1388.9
40°	1335.8	1334.1	1354.6	1340.9	1340.9
42.5°	1286.4	1284.7	1302.5	1286.0	1286.0
45°	1210.6	1207.2	1219.2	1203.6	1200.3
47.5°	1127.9	1124.6	1132.1	1115.2	1113.5
50°	1071.7	1068.3	1071.7	1056.2	1054.5
52.5°	1014.1	1008.0	1008.6	993.2	992.8
55°	925.9	914.2	913.9	900.2	900.2
57.5°	832.7	817.2	818.6	806.9	805.2
60°	768.2	751.4	752.8	742.4	740.8
62.5°	705.1	685.6	689.7	678.0	677.7
65°	600.1	586.7	588.1	583.0	583.0
67.5°	499.3	486.9	495.9	491.8	491.4
70°	425.2	416.9	428.7	428.6	427.0
72.5°	356.7	356.3	371.1	371.1	372.1
75°	258.9	270.7	286.4	288.1	288.1
77.5°	172.8	193.6	210.9	211.6	211.3
80°	123.5	146.9	162.9	166.3	164.6
82.5°	83.7	108.5	121.7	125.1	123.5
85°	37.7	57.8	68.6	70.3	68.6
87.5°	11.0	23.0	27.4	27.4	24.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)