

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: P561506

Luminaire Tested: **SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561506  
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-PC3-050U-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 500 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: 7236.9 lumens  
Efficiency: N/A  
Efficacy: 101.1 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

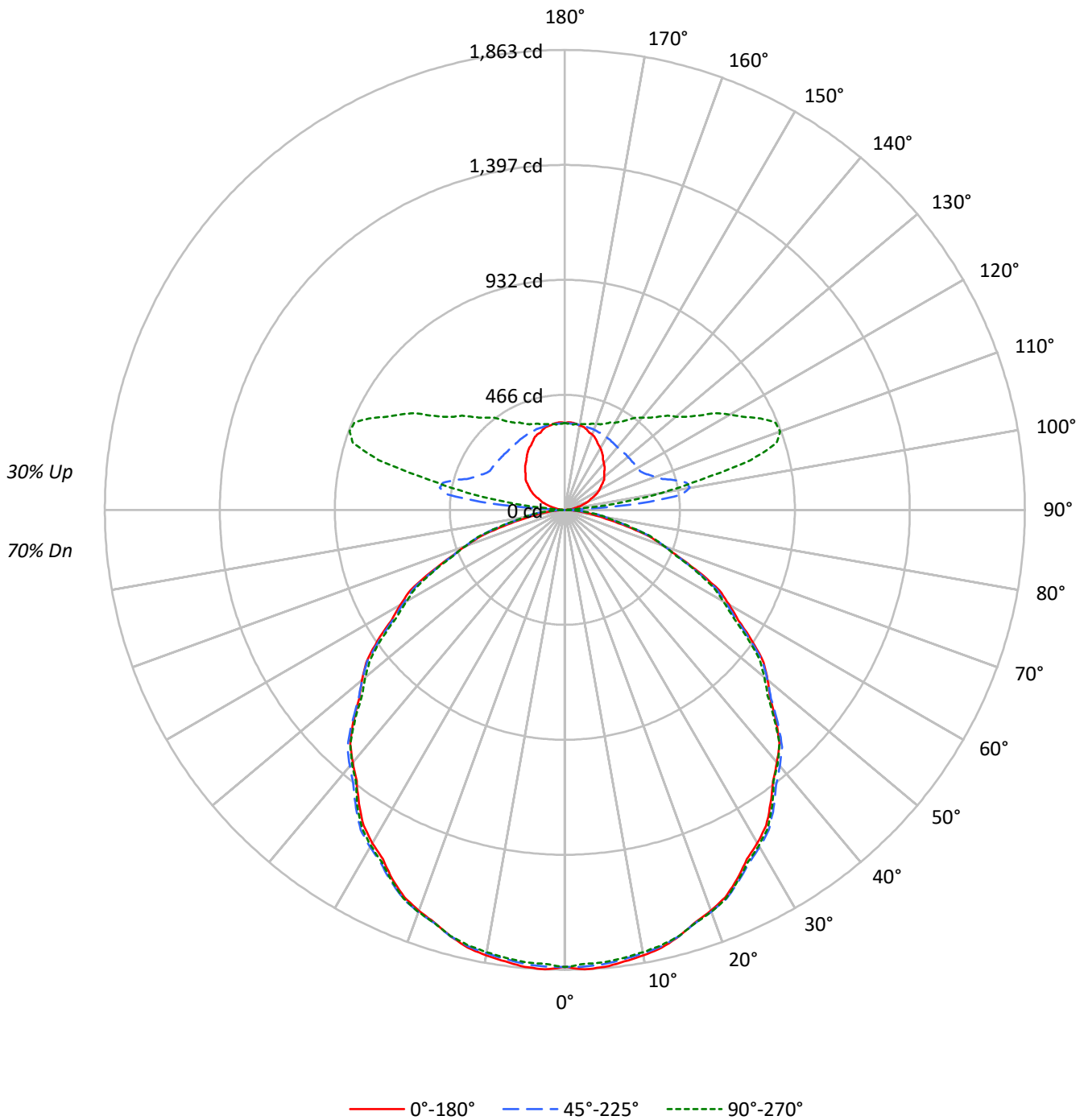
Input Watts (W): 71.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									20									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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR	0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	74	74	74	74	74	74	74	74	70																
	1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63	63	63	63	63	63	63	63	63	63	63	63	59																
	2	93	86	79	74	88	81	75	71	73	68	65	65	62	59	58	55	53	53	53	53	53	53	53	53	53	53	53	53	49																
	3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	51	48	45	45	45	45	45	45	45	45	45	45	45	45	42																
	4	78	67	58	52	73	63	56	50	57	51	46	51	46	43	46	42	39	39	39	39	39	39	39	39	39	39	39	39	36																
	5	71	59	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	34	34	34	34	34	34	34	34	31																
	6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	37	33	30	30	30	30	30	30	30	30	30	30	30	30	27																
	7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	34	30	26	26	26	26	26	26	26	26	26	26	26	26	24																
	8	57	44	36	30	53	42	35	29	38	32	27	35	29	26	31	27	24	24	24	24	24	24	24	24	24	24	24	24	21																
	9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	21	21	21	21	21	21	21	21	19																
	10	49	37	29	24	47	35	28	24	32	26	22	30	24	21	27	23	19	19	19	19	19	19	19	19	19	19	19	19	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	2.4
10°-20°	502.9	6.9
20°-30°	761.6	10.5
30°-40°	913.1	12.6
40°-50°	931.1	12.9
50°-60°	812.8	11.2
60°-70°	581.9	8.0
70°-80°	299.7	4.1
80°-90°	75.8	1.0
90°-100°	160.1	2.2
100°-110°	455.6	6.3
110°-120°	436.5	6.0
120°-130°	345.5	4.8
130°-140°	277.3	3.8
140°-150°	217.1	3.0
150°-160°	158.8	2.2
160°-170°	98.4	1.4
170°-180°	33.4	0.5
0°-30°	1439.9	19.9
0°-40°	2353.0	32.5
0°-60°	4096.8	56.6
0°-90°	5054.1	69.8
90°-120°	1052.2	14.5
90°-150°	1892.1	26.1
90°-180°	2183.0	30.2
0°-180°	7236.9	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°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

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CATALOG NUMBER: SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (3500K)

**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°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)