

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: P561452

Luminaire Tested: **SQ4-PC3-025U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561452
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

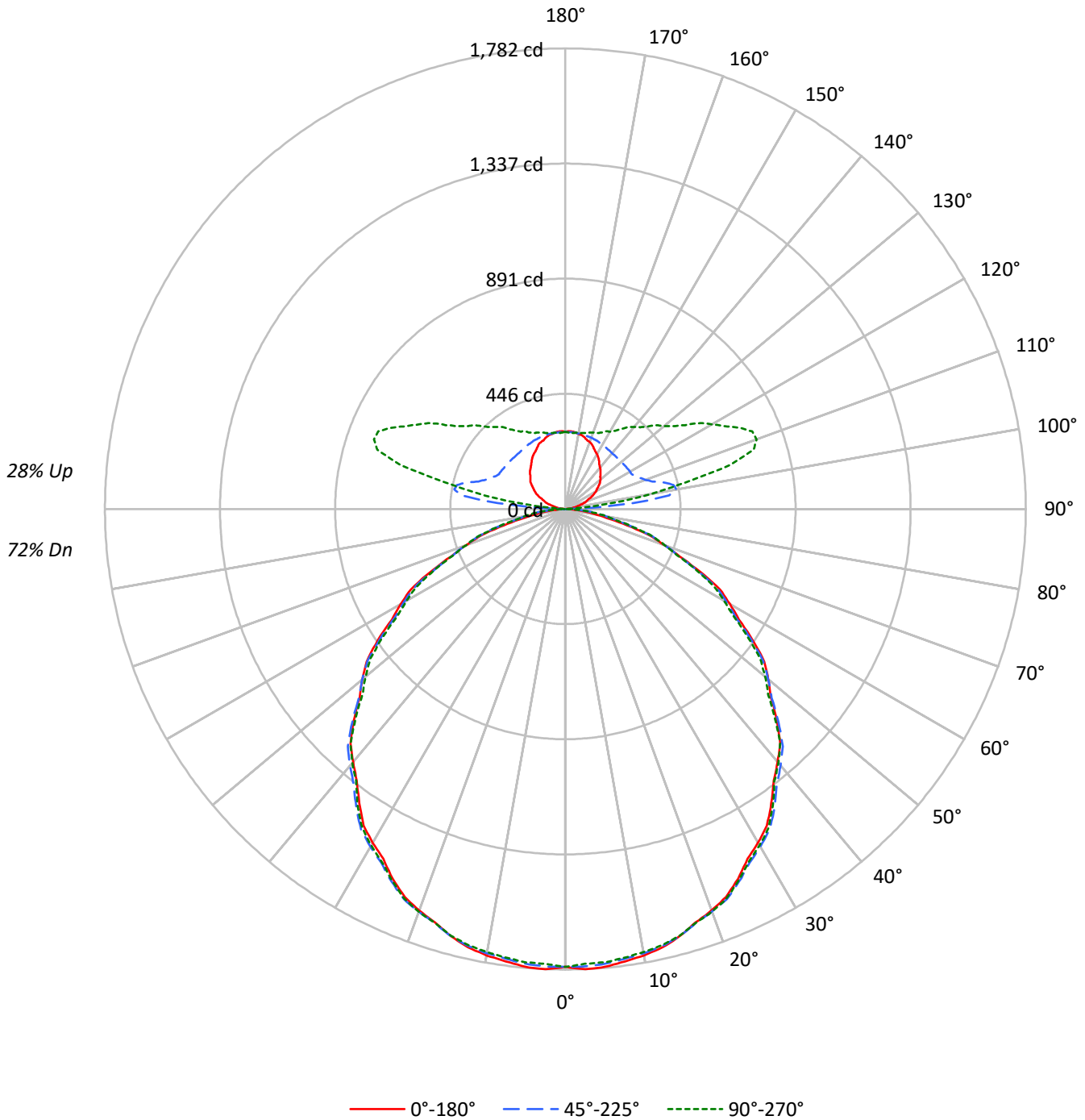
Lumens per Lamp: N/A
Luminaire Lumens: 6688.4 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.6
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	
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°	16347	16347	16347
5°	16470	16363	16303
10°	16430	16353	16307
15°	16344	16344	16328
20°	16236	16285	16285
25°	16082	16199	16150
30°	15887	16079	16009
35°	15650	15891	15780
40°	15392	15609	15451
45°	15112	15219	14984
50°	14717	14717	14481
55°	14250	14065	13854
60°	13563	13289	13077
65°	12535	12284	12177
70°	10976	11063	11020
75°	8830	9767	9824
80°	6275	8278	8368
85°	3822	6944	6944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	2.5
10°-20°	481.2	7.2
20°-30°	728.7	10.9
30°-40°	873.6	13.1
40°-50°	890.8	13.3
50°-60°	777.6	11.6
60°-70°	556.7	8.3
70°-80°	286.7	4.3
80°-90°	72.5	1.1
90°-100°	135.9	2.0
100°-110°	386.8	5.8
110°-120°	370.6	5.5
120°-130°	293.3	4.4
130°-140°	235.4	3.5
140°-150°	184.3	2.8
150°-160°	134.8	2.0
160°-170°	83.5	1.2
170°-180°	28.3	0.4
0°-30°	1377.6	20.6
0°-40°	2251.2	33.7
0°-60°	3919.6	58.6
0°-90°	4835.5	72.3
90°-120°	893.2	13.4
90°-150°	1606.2	24.0
90°-180°	1853.0	27.7
0°-180°	6688.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1778	1761	1767	1762	1760	169
15°	1711	1697	1711	1711	1709	482
25°	1580	1569	1591	1586	1586	727
35°	1390	1386	1411	1401	1401	869
45°	1158	1155	1166	1152	1148	892
55°	886	875	874	861	861	790
65°	574	561	563	558	558	568
75°	248	259	274	276	276	268
85°	36	55	66	67	66	49
90°	0	0	0	0	0	2
95°	15	59	263	91	56	17
105°	60	91	394	696	662	64
115°	112	135	299	633	744	110
125°	158	175	285	473	566	141
135°	193	209	282	400	452	149
145°	227	239	284	346	377	142
155°	260	266	291	313	326	120
165°	287	288	294	301	305	81
175°	301	299	298	296	294	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1782.3	1766.9	1771.8	1767.7	1761.3
5°	1778.3	1760.7	1766.8	1761.9	1760.3
7.5°	1765.5	1747.9	1756.0	1752.7	1751.1
10°	1753.7	1736.1	1745.5	1742.2	1740.6
12.5°	1738.0	1721.6	1732.4	1729.1	1728.8
15°	1711.1	1696.6	1711.1	1711.0	1709.4
17.5°	1677.3	1664.1	1679.6	1680.5	1679.6
20°	1653.6	1639.2	1658.6	1657.0	1658.6
22.5°	1624.8	1612.9	1633.6	1629.4	1631.0
25°	1579.8	1568.6	1591.3	1586.4	1586.4
27.5°	1526.7	1518.7	1543.4	1538.2	1538.2
30°	1491.2	1483.2	1509.3	1502.7	1502.7
32.5°	1451.9	1446.4	1471.2	1463.3	1463.3
35°	1389.5	1386.3	1410.9	1401.0	1401.0
37.5°	1325.2	1322.3	1344.6	1332.7	1328.8
40°	1278.0	1276.4	1296.0	1282.9	1282.9
42.5°	1230.7	1229.1	1246.1	1230.4	1230.4
45°	1158.2	1155.0	1166.4	1151.6	1148.4
47.5°	1079.1	1075.9	1083.1	1067.0	1065.4
50°	1025.3	1022.1	1025.3	1010.5	1008.9
52.5°	970.2	964.4	965.0	950.2	949.9
55°	885.9	874.7	874.4	861.3	861.3
57.5°	796.6	781.9	783.2	772.0	770.4
60°	735.0	718.9	720.2	710.3	708.7
62.5°	674.6	656.0	659.8	648.7	648.3
65°	574.2	561.4	562.7	557.8	557.8
67.5°	477.7	465.9	474.4	470.5	470.2
70°	406.9	398.8	410.1	410.1	408.5
72.5°	341.2	340.9	355.0	355.0	356.0
75°	247.7	258.9	274.0	275.6	275.6
77.5°	165.4	185.3	201.8	202.4	202.1
80°	118.1	140.6	155.8	159.1	157.5
82.5°	80.1	103.8	116.5	119.7	118.1
85°	36.1	55.3	65.6	67.2	65.6
87.5°	10.5	22.0	26.2	26.2	23.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.5	24.1	55.8	16.2	12.2
95°	14.7	58.6	263.1	91.1	56.1
97.5°	27.1	68.6	405.3	290.0	198.7
100°	35.7	74.5	436.1	441.7	340.3
102.5°	45.3	81.0	429.3	565.4	476.8
105°	60.1	91.2	394.1	696.2	661.8
107.5°	75.2	103.0	353.1	733.1	763.7
110°	85.6	111.7	329.5	719.0	787.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	120.3	313.6	685.6	783.6
115°	111.7	135.0	298.9	633.1	743.5
117.5°	125.9	147.7	290.1	575.8	692.7
120°	137.2	155.5	289.2	543.0	655.0
122.5°	146.3	164.6	287.0	514.2	618.3
125°	157.7	174.8	285.3	473.4	566.0
127.5°	170.0	186.1	284.3	449.0	525.3
130°	176.4	192.5	283.0	431.9	498.5
132.5°	183.2	198.8	283.0	418.7	479.9
135°	192.8	208.9	281.9	399.9	452.0
137.5°	201.9	217.5	281.7	383.9	429.0
140°	208.7	224.8	281.3	370.7	414.0
142.5°	216.4	229.8	282.6	360.2	399.0
145°	227.4	239.1	284.1	346.1	377.1
147.5°	236.8	248.1	286.6	331.8	358.6
150°	245.0	252.8	287.5	327.1	345.9
152.5°	251.3	259.6	288.4	320.7	338.2
155°	259.7	265.8	290.9	312.8	325.5
157.5°	270.2	273.8	291.5	309.2	318.3
160°	275.6	278.4	293.8	306.4	314.2
162.5°	278.8	282.0	294.2	304.1	310.1
165°	287.0	288.1	294.3	300.7	305.1
167.5°	292.5	291.5	296.9	299.8	301.6
170°	294.3	293.8	296.0	296.6	298.9
172.5°	298.4	296.5	297.4	295.7	297.5
175°	300.6	298.9	297.7	296.0	293.8
177.5°	301.5	298.8	297.4	295.6	296.0
180°	298.3	298.3	298.3	298.3	298.3

(END OF REPORT)