

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: P562548

Luminaire Tested: **SQ4-PC3-025U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562548
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

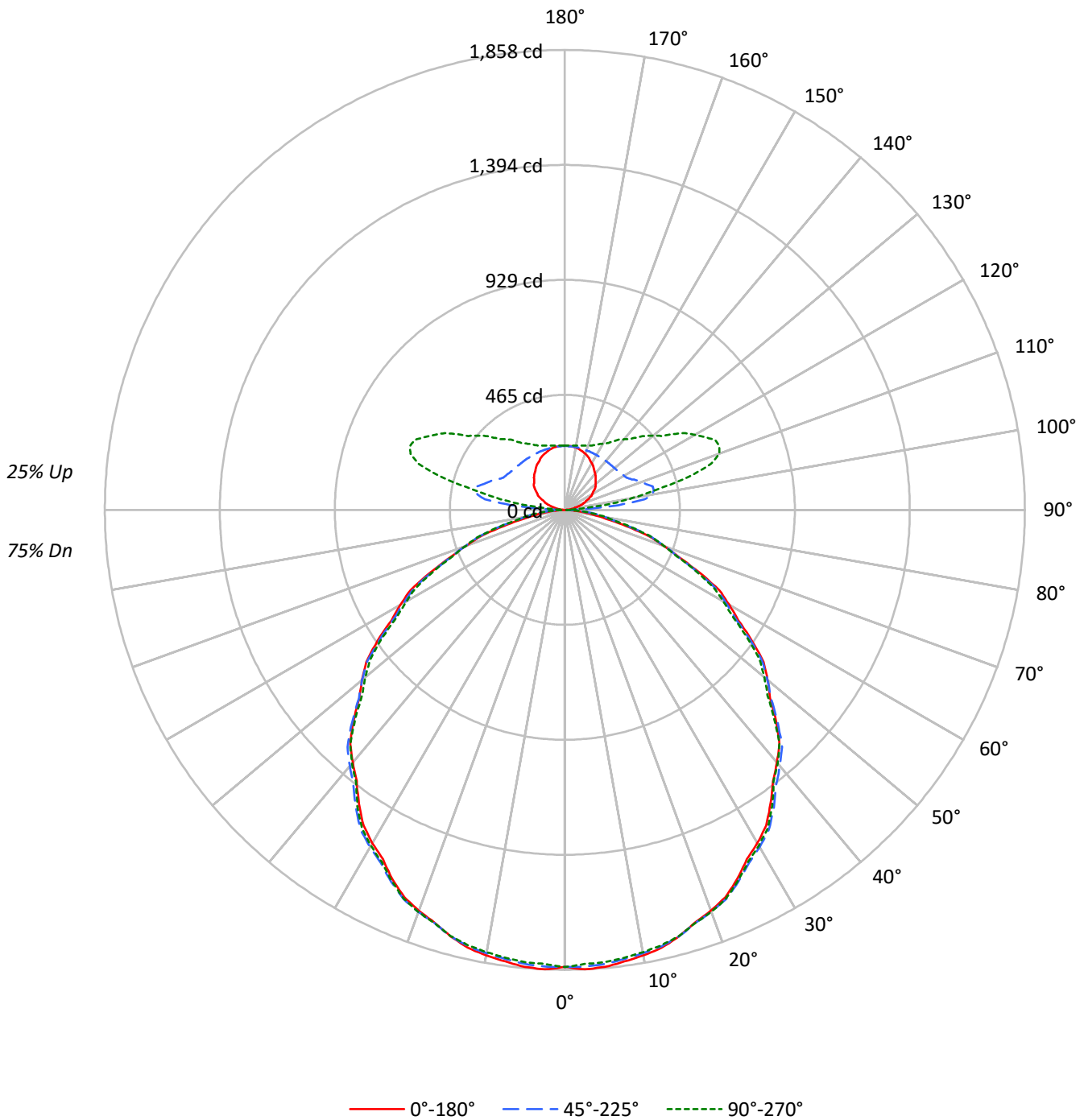
Lumens per Lamp: N/A
Luminaire Lumens: 6720.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P562548
CATALOG NUMBER: SQ4-PC3-025U-075D-935-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P562548

CATALOG NUMBER: SQ4-PC3-025U-075D-935-1D-UNV-STD-W-8

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	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°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8381	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7876	7932	7810
50°	7670	7670	7548
55°	7427	7331	7221
60°	7068	6926	6816
65°	6533	6403	6346
70°	5720	5766	5743
75°	4602	5090	5121
80°	3270	4317	4362
85°	1990	3620	3620



TEST NUMBER: P562548

CATALOG NUMBER: SQ4-PC3-025U-075D-935-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	2.6
10°-20°	501.6	7.5
20°-30°	759.6	11.3
30°-40°	910.7	13.6
40°-50°	928.6	13.8
50°-60°	810.6	12.1
60°-70°	580.3	8.6
70°-80°	298.9	4.4
80°-90°	77.0	1.1
90°-100°	126.2	1.9
100°-110°	331.8	4.9
110°-120°	344.1	5.1
120°-130°	276.0	4.1
130°-140°	216.6	3.2
140°-150°	166.2	2.5
150°-160°	119.7	1.8
160°-170°	73.2	1.1
170°-180°	24.7	0.4
0°-30°	1436.0	21.4
0°-40°	2346.6	34.9
0°-60°	4085.8	60.8
0°-90°	5041.9	75.0
90°-120°	802.1	11.9
90°-150°	1460.9	21.7
90°-180°	1679.0	25.0
0°-180°	6720.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1854	1835	1842	1837	1835	176
15°	1784	1769	1784	1784	1782	503
25°	1647	1635	1659	1654	1654	758
35°	1448	1445	1471	1460	1460	906
45°	1207	1204	1216	1200	1197	929
55°	923	912	912	898	898	823
65°	598	585	587	581	581	592
75°	258	270	286	287	287	279
85°	38	58	68	70	68	51
90°	2	5	13	7	7	3
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	



TEST NUMBER: P562548

CATALOG NUMBER: SQ4-PC3-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1846.9	1846.9	1846.9	1846.9	1846.9
2.5°	1857.8	1841.8	1846.9	1842.6	1836.0
5°	1853.7	1835.3	1841.8	1836.6	1834.9
7.5°	1840.4	1822.0	1830.5	1827.0	1825.3
10°	1828.1	1809.7	1819.5	1816.1	1814.4
12.5°	1811.7	1794.6	1805.9	1802.4	1802.1
15°	1783.6	1768.6	1783.6	1783.6	1781.9
17.5°	1748.4	1734.7	1750.8	1751.8	1750.8
20°	1723.8	1708.7	1728.9	1727.2	1728.9
22.5°	1693.7	1681.3	1702.9	1698.5	1700.2
25°	1646.8	1635.1	1658.8	1653.7	1653.7
27.5°	1591.4	1583.0	1608.9	1603.4	1603.4
30°	1554.5	1546.1	1573.3	1566.4	1566.4
32.5°	1513.4	1507.7	1533.6	1525.4	1525.4
35°	1448.4	1445.1	1470.7	1460.4	1460.4
37.5°	1381.4	1378.4	1401.6	1389.2	1385.2
40°	1332.2	1330.5	1351.0	1337.3	1337.3
42.5°	1282.9	1281.2	1299.0	1282.6	1282.6
45°	1207.3	1204.0	1215.9	1200.4	1197.1
47.5°	1124.9	1121.6	1129.0	1112.2	1110.5
50°	1068.8	1065.5	1068.8	1053.4	1051.7
52.5°	1011.3	1005.3	1005.9	990.5	990.1
55°	923.4	911.7	911.5	897.8	897.8
57.5°	830.4	815.0	816.4	804.7	803.1
60°	766.1	749.4	750.7	740.4	738.8
62.5°	703.2	683.8	687.8	676.2	675.8
65°	598.5	585.2	586.6	581.4	581.4
67.5°	498.0	485.6	494.6	490.4	490.1
70°	424.1	415.7	427.5	427.5	425.8
72.5°	355.7	355.4	370.1	370.1	371.1
75°	258.2	269.9	285.6	287.3	287.3
77.5°	172.4	193.1	210.3	211.0	210.7
80°	123.1	146.5	162.5	165.8	164.2
82.5°	83.5	108.2	121.4	124.8	123.1
85°	37.6	57.7	68.4	70.1	68.4
87.5°	11.3	24.0	30.0	28.6	26.0
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

TEST NUMBER: P562548

CATALOG NUMBER: SQ4-PC3-025U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)