

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: P562591

Luminaire Tested: **SQ4-PC3-025U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562591
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-125D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

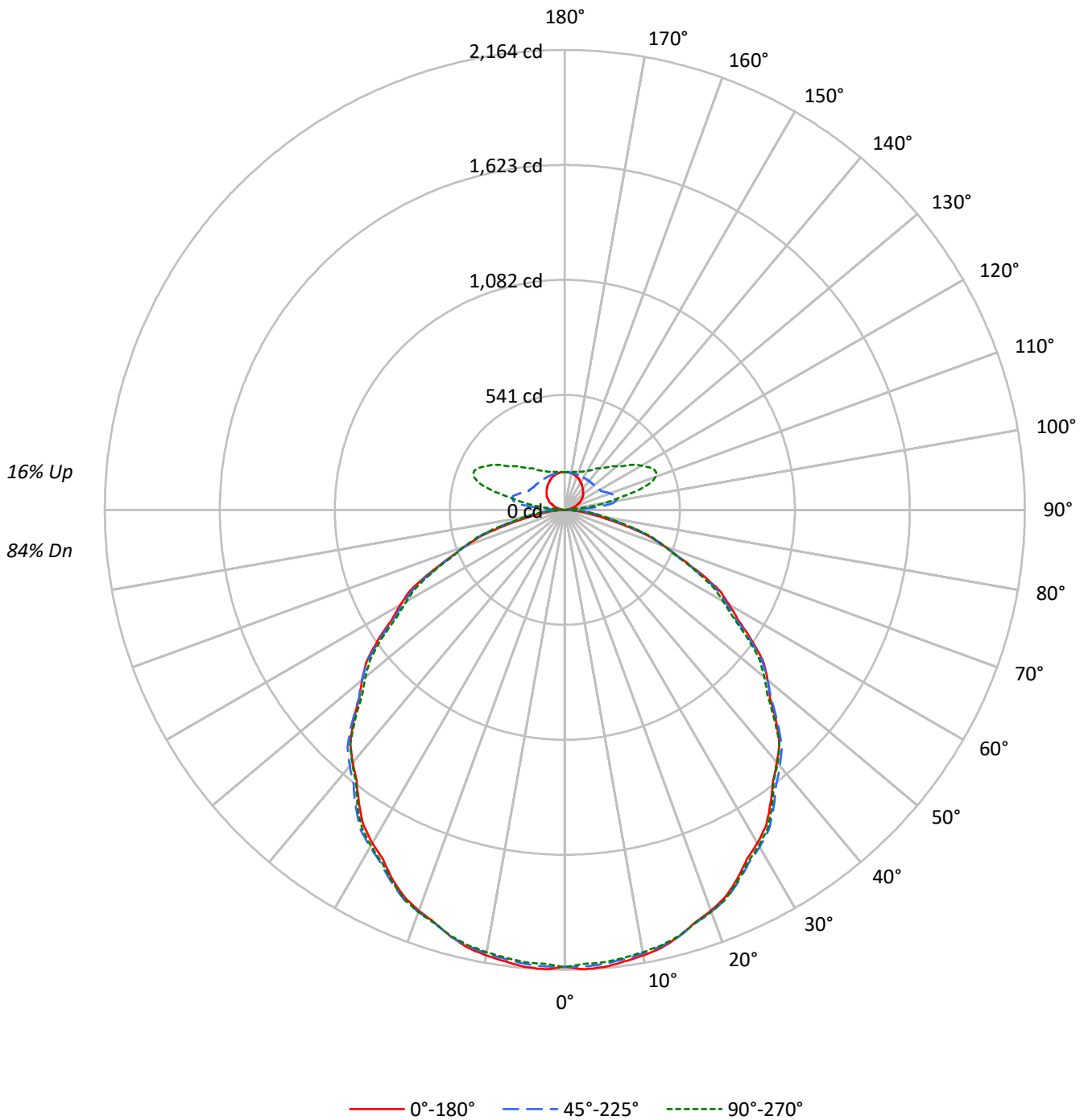
Lumens per Lamp: N/A
Luminaire Lumens: 7024.4 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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



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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	0
RCR																		
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	80	69	60	54	77	66	59	53	62	55	50	58	52	48	54	49	46	43
5	74	61	53	46	71	59	51	45	55	49	43	52	46	42	48	44	40	37
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	33
7	63	50	42	36	60	48	41	35	45	39	34	43	37	32	40	35	31	29
8	59	46	37	32	56	44	37	31	42	35	30	39	33	29	37	32	28	26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13235	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13070
30°	12858	13014	12957
35°	12666	12861	12772
40°	12457	12633	12506
45°	12231	12318	12128
50°	11911	11911	11721
55°	11533	11384	11213
60°	10977	10755	10584
65°	10146	9942	9856
70°	8882	8954	8918
75°	7146	7904	7952
80°	5079	6702	6773
85°	3091	5625	5625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	2.9
10°-20°	584.2	8.3
20°-30°	884.7	12.6
30°-40°	1060.6	15.1
40°-50°	1081.5	15.4
50°-60°	944.0	13.4
60°-70°	675.9	9.6
70°-80°	348.1	5.0
80°-90°	89.0	1.3
90°-100°	86.7	1.2
100°-110°	227.9	3.2
110°-120°	236.3	3.4
120°-130°	189.6	2.7
130°-140°	148.7	2.1
140°-150°	114.2	1.6
150°-160°	82.2	1.2
160°-170°	50.3	0.7
170°-180°	17.0	0.2
0°-30°	1672.4	23.8
0°-40°	2733.0	38.9
0°-60°	4758.5	67.7
0°-90°	5871.5	83.6
90°-120°	551.0	7.8
90°-150°	1003.4	14.3
90°-180°	1153.0	16.4
0°-180°	7024.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2151	2151	2151	2151	2151	
5°	2159	2138	2145	2139	2137	205
15°	2077	2060	2077	2077	2075	586
25°	1918	1904	1932	1926	1926	883
35°	1687	1683	1713	1701	1701	1055
45°	1406	1402	1416	1398	1394	1082
55°	1076	1062	1062	1046	1046	959
65°	697	682	683	677	677	689
75°	301	314	333	335	335	325
85°	44	67	80	82	80	60
90°	1	3	9	5	5	3
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2151.0	2151.0	2151.0	2151.0	2151.0
2.5°	2163.7	2145.1	2151.0	2146.0	2138.3
5°	2159.0	2137.5	2145.0	2139.0	2137.1
7.5°	2143.4	2122.0	2131.9	2127.9	2125.9
10°	2129.1	2107.7	2119.1	2115.1	2113.2
12.5°	2110.0	2090.1	2103.2	2099.2	2098.8
15°	2077.3	2059.8	2077.3	2077.3	2075.3
17.5°	2036.3	2020.3	2039.1	2040.2	2039.1
20°	2007.6	1990.1	2013.6	2011.6	2013.6
22.5°	1972.5	1958.1	1983.3	1978.2	1980.1
25°	1918.0	1904.3	1931.9	1925.9	1925.9
27.5°	1853.4	1843.7	1873.8	1867.4	1867.4
30°	1810.4	1800.7	1832.3	1824.4	1824.4
32.5°	1762.6	1756.0	1786.1	1776.6	1776.6
35°	1686.9	1683.0	1712.8	1700.9	1700.9
37.5°	1608.9	1605.4	1632.4	1617.9	1613.3
40°	1551.5	1549.6	1573.4	1557.5	1557.5
42.5°	1494.2	1492.2	1512.9	1493.8	1493.8
45°	1406.1	1402.2	1416.1	1398.1	1394.2
47.5°	1310.1	1306.2	1314.9	1295.3	1293.4
50°	1244.8	1240.9	1244.8	1226.8	1224.9
52.5°	1177.9	1170.9	1171.5	1153.6	1153.2
55°	1075.5	1061.9	1061.6	1045.6	1045.6
57.5°	967.2	949.2	950.8	937.2	935.3
60°	892.3	872.8	874.3	862.3	860.4
62.5°	819.0	796.4	801.0	787.5	787.1
65°	697.1	681.5	683.1	677.2	677.2
67.5°	580.0	565.6	576.0	571.2	570.8
70°	493.9	484.2	497.9	497.9	495.9
72.5°	414.3	413.9	431.0	431.0	432.2
75°	300.7	314.4	332.6	334.6	334.6
77.5°	200.8	224.9	245.0	245.8	245.4
80°	143.4	170.7	189.2	193.1	191.2
82.5°	97.2	126.0	141.4	145.3	143.4
85°	43.8	67.2	79.7	81.6	79.7
87.5°	13.0	27.4	33.7	32.7	29.6
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)