

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: P562687

Luminaire Tested: **SQ4-PC3-050U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562687
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

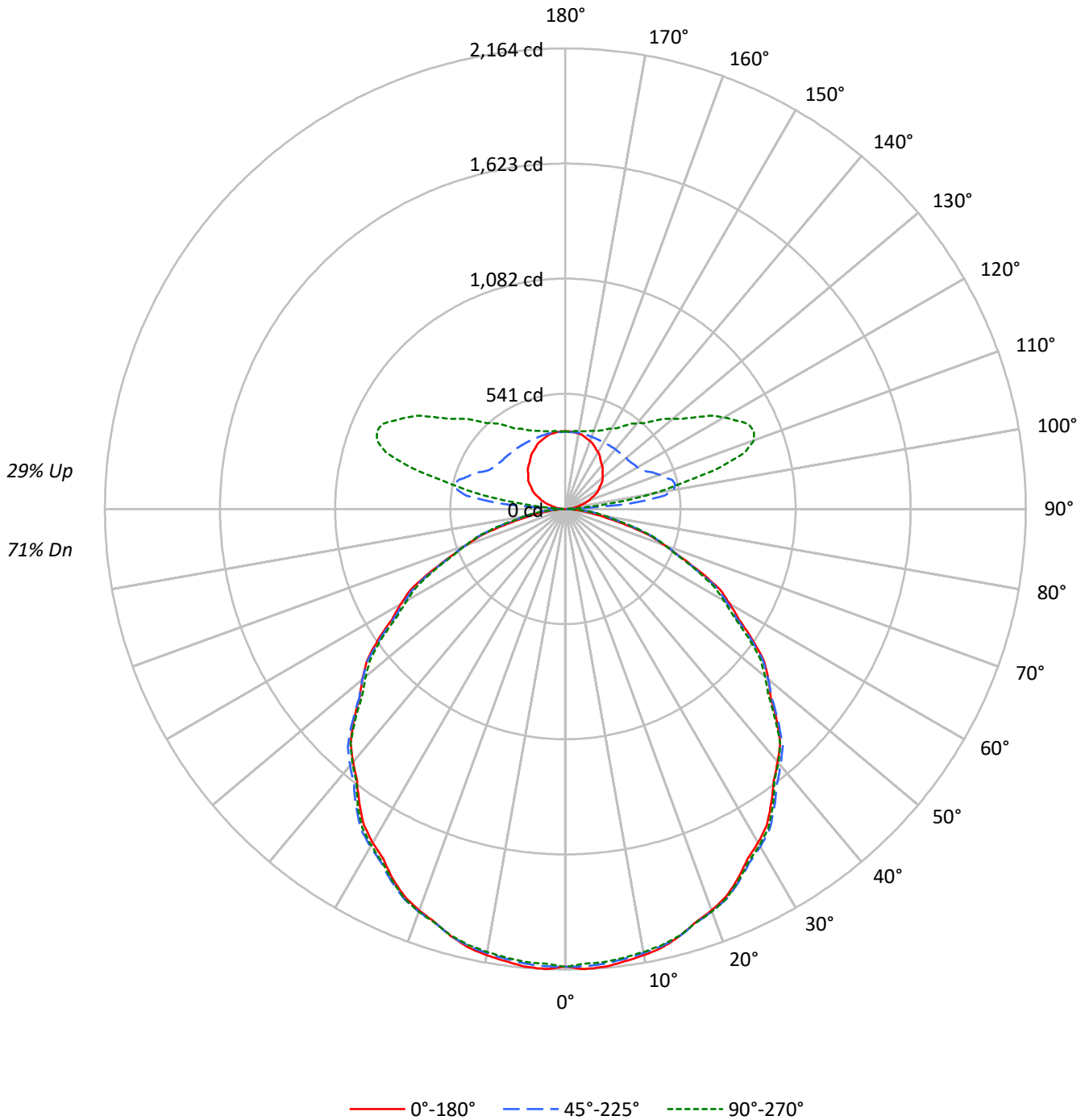
Lumens per Lamp: N/A
Luminaire Lumens: 8249.5 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

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	2.5
10°-20°	584.2	7.1
20°-30°	884.7	10.7
30°-40°	1060.6	12.9
40°-50°	1081.5	13.1
50°-60°	944.0	11.4
60°-70°	675.9	8.2
70°-80°	348.1	4.2
80°-90°	89.4	1.1
90°-100°	174.8	2.1
100°-110°	474.9	5.8
110°-120°	488.2	5.9
120°-130°	390.4	4.7
130°-140°	306.7	3.7
140°-150°	235.2	2.9
150°-160°	169.1	2.1
160°-170°	103.4	1.3
170°-180°	34.8	0.4
0°-30°	1672.4	20.3
0°-40°	2733.0	33.1
0°-60°	4758.5	57.7
0°-90°	5871.9	71.2
90°-120°	1137.9	13.8
90°-150°	2070.2	25.1
90°-180°	2378.0	28.8
0°-180°	8249.5	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	5	8	10	10	4
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	



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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	27.7	33.5	33.9	30.8
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)