

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: P563005

Luminaire Tested: **SQ4-PC3-125U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563005
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-050D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

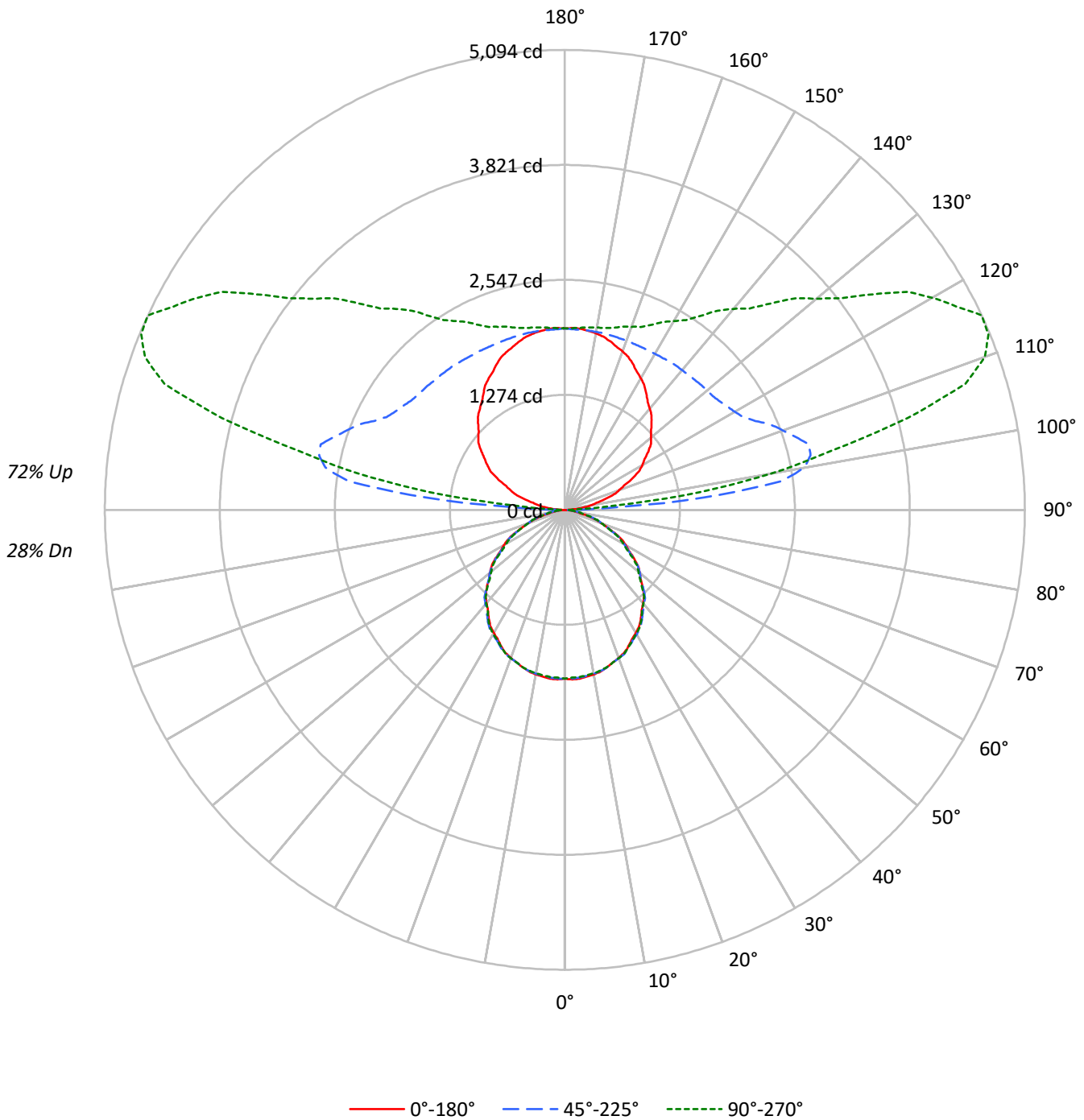
Lumens per Lamp: N/A
Luminaire Lumens: 18074.0 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 146.4
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5751	5751	5751
5°	5795	5757	5736
10°	5780	5754	5737
15°	5750	5750	5745
20°	5712	5729	5729
25°	5658	5699	5682
30°	5590	5657	5633
35°	5506	5591	5552
40°	5415	5492	5436
45°	5317	5354	5272
50°	5178	5178	5095
55°	5013	4948	4874
60°	4771	4676	4601
65°	4410	4322	4284
70°	3861	3893	3877
75°	3107	3436	3457
80°	2209	2913	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	1.0
10°-20°	507.9	2.8
20°-30°	769.1	4.3
30°-40°	922.1	5.1
40°-50°	940.2	5.2
50°-60°	820.7	4.5
60°-70°	587.6	3.3
70°-80°	302.6	1.7
80°-90°	81.2	0.4
90°-100°	939.5	5.2
100°-110°	2530.9	14.0
110°-120°	2656.1	14.7
120°-130°	2155.4	11.9
130°-140°	1690.4	9.4
140°-150°	1297.8	7.2
150°-160°	933.1	5.2
160°-170°	570.1	3.2
170°-180°	192.2	1.1
0°-30°	1454.0	8.0
0°-40°	2376.1	13.1
0°-60°	4137.0	22.9
0°-90°	5108.5	28.3
90°-120°	6126.5	33.9
90°-150°	11270.0	62.4
90°-180°	12965.0	71.7
0°-180°	18074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1877	1858	1865	1860	1858	178
15°	1806	1791	1806	1806	1804	509
25°	1668	1656	1680	1674	1674	767
35°	1467	1463	1489	1479	1479	917
45°	1222	1219	1231	1216	1212	941
55°	935	923	923	909	909	833
65°	606	592	594	589	589	599
75°	262	273	289	291	291	283
85°	38	58	69	71	69	52
90°	5	15	31	33	33	12
95°	143	511	1540	788	545	150
105°	468	728	2799	4188	3930	492
115°	826	1012	2331	4504	5094	813
125°	1128	1296	2093	3537	4163	1007
135°	1359	1516	2034	2854	3231	1049
145°	1571	1694	2008	2440	2620	985
155°	1783	1848	1990	2189	2259	821
165°	1934	1957	1998	2078	2088	545
175°	2011	2008	2001	2029	2024	191
180°	2008	2008	2008	2008	2008	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1870.1	1870.1	1870.1	1870.1	1870.1
2.5°	1881.2	1864.9	1870.1	1865.8	1859.0
5°	1877.0	1858.4	1864.9	1859.6	1858.0
7.5°	1863.5	1844.9	1853.5	1850.0	1848.3
10°	1851.0	1832.4	1842.4	1838.9	1837.2
12.5°	1834.4	1817.1	1828.5	1825.0	1824.7
15°	1806.0	1790.8	1806.0	1806.0	1804.3
17.5°	1770.3	1756.5	1772.8	1773.8	1772.8
20°	1745.4	1730.2	1750.6	1748.9	1750.6
22.5°	1714.9	1702.4	1724.3	1719.8	1721.5
25°	1667.5	1655.6	1679.6	1674.4	1674.4
27.5°	1611.4	1602.9	1629.0	1623.5	1623.5
30°	1574.0	1565.5	1593.0	1586.1	1586.1
32.5°	1532.4	1526.7	1552.9	1544.5	1544.5
35°	1466.6	1463.2	1489.1	1478.7	1478.7
37.5°	1398.7	1395.7	1419.2	1406.6	1402.6
40°	1348.9	1347.2	1367.9	1354.1	1354.1
42.5°	1299.0	1297.3	1315.3	1298.7	1298.7
45°	1222.5	1219.1	1231.1	1215.5	1212.1
47.5°	1139.0	1135.6	1143.2	1126.2	1124.5
50°	1082.2	1078.8	1082.2	1066.6	1064.9
52.5°	1024.0	1017.9	1018.5	1002.9	1002.6
55°	935.0	923.2	922.9	909.1	909.1
57.5°	840.8	825.3	826.6	814.8	813.1
60°	775.7	758.8	760.2	749.7	748.0
62.5°	712.0	692.4	696.4	684.6	684.3
65°	606.0	592.5	593.9	588.7	588.7
67.5°	504.2	491.7	500.8	496.6	496.3
70°	429.4	421.0	432.9	432.8	431.2
72.5°	360.2	359.8	374.7	374.7	375.7
75°	261.5	273.3	289.2	290.9	290.9
77.5°	174.5	195.5	213.0	213.7	213.3
80°	124.7	148.4	164.5	167.9	166.2
82.5°	84.5	109.6	122.9	126.4	124.7
85°	38.1	58.4	69.3	71.0	69.3
87.5°	12.1	26.3	33.8	34.3	31.6
90°	5.1	15.1	30.7	33.3	33.3
92.5°	62.4	220.5	436.0	209.9	145.8
95°	143.3	511.0	1540.2	787.6	545.0
97.5°	228.7	585.0	2415.7	2018.1	1521.8
100°	294.2	614.4	2694.1	2818.8	2338.5
102.5°	357.7	655.9	2786.2	3418.4	3024.1
105°	468.2	728.4	2799.0	4187.5	3929.8
107.5°	572.6	804.7	2679.8	4582.7	4649.3
110°	642.2	862.3	2571.3	4705.4	4948.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	715.9	920.0	2466.9	4678.3	5077.1
115°	826.4	1011.5	2330.8	4503.6	5093.9
117.5°	927.2	1100.8	2225.4	4224.7	4882.1
120°	992.7	1160.3	2172.2	4024.5	4699.9
122.5°	1050.0	1215.6	2133.3	3819.8	4493.2
125°	1128.3	1295.9	2092.8	3537.2	4162.7
127.5°	1203.5	1368.6	2067.3	3288.1	3846.4
130°	1248.5	1413.6	2057.0	3145.3	3635.6
132.5°	1293.6	1456.7	2046.8	3019.5	3469.8
135°	1358.6	1516.2	2034.0	2853.6	3231.4
137.5°	1420.5	1571.6	2027.3	2712.9	3023.1
140°	1463.5	1608.5	2021.2	2626.3	2906.4
142.5°	1508.5	1643.6	2017.1	2545.4	2781.6
145°	1570.9	1693.5	2008.4	2439.8	2619.9
147.5°	1638.5	1745.0	1999.7	2350.9	2492.5
150°	1683.5	1776.0	1995.6	2295.1	2412.6
152.5°	1724.4	1805.0	1993.6	2249.5	2345.1
155°	1783.3	1848.3	1990.5	2189.1	2259.1
157.5°	1834.9	1885.5	1991.0	2146.6	2193.6
160°	1867.7	1910.2	1993.1	2121.8	2156.8
162.5°	1896.3	1930.9	1995.1	2101.1	2126.1
165°	1934.2	1956.7	1998.2	2077.7	2087.7
167.5°	1964.9	1977.9	2000.7	2059.7	2063.7
170°	1985.4	1990.4	2000.7	2049.3	2049.3
172.5°	1997.7	1998.7	2002.8	2039.1	2039.1
175°	2011.0	2008.5	2000.7	2028.8	2023.8
177.5°	2016.6	2012.6	2002.3	2018.6	2014.5
180°	2008.4	2008.4	2008.4	2008.4	2008.4

(END OF REPORT)