

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: P563069

Luminaire Tested: **SQ4-PC3-125U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563069
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-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23680.1 lumens
Efficiency: N/A
Efficacy: 101.3 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: General Diffuse

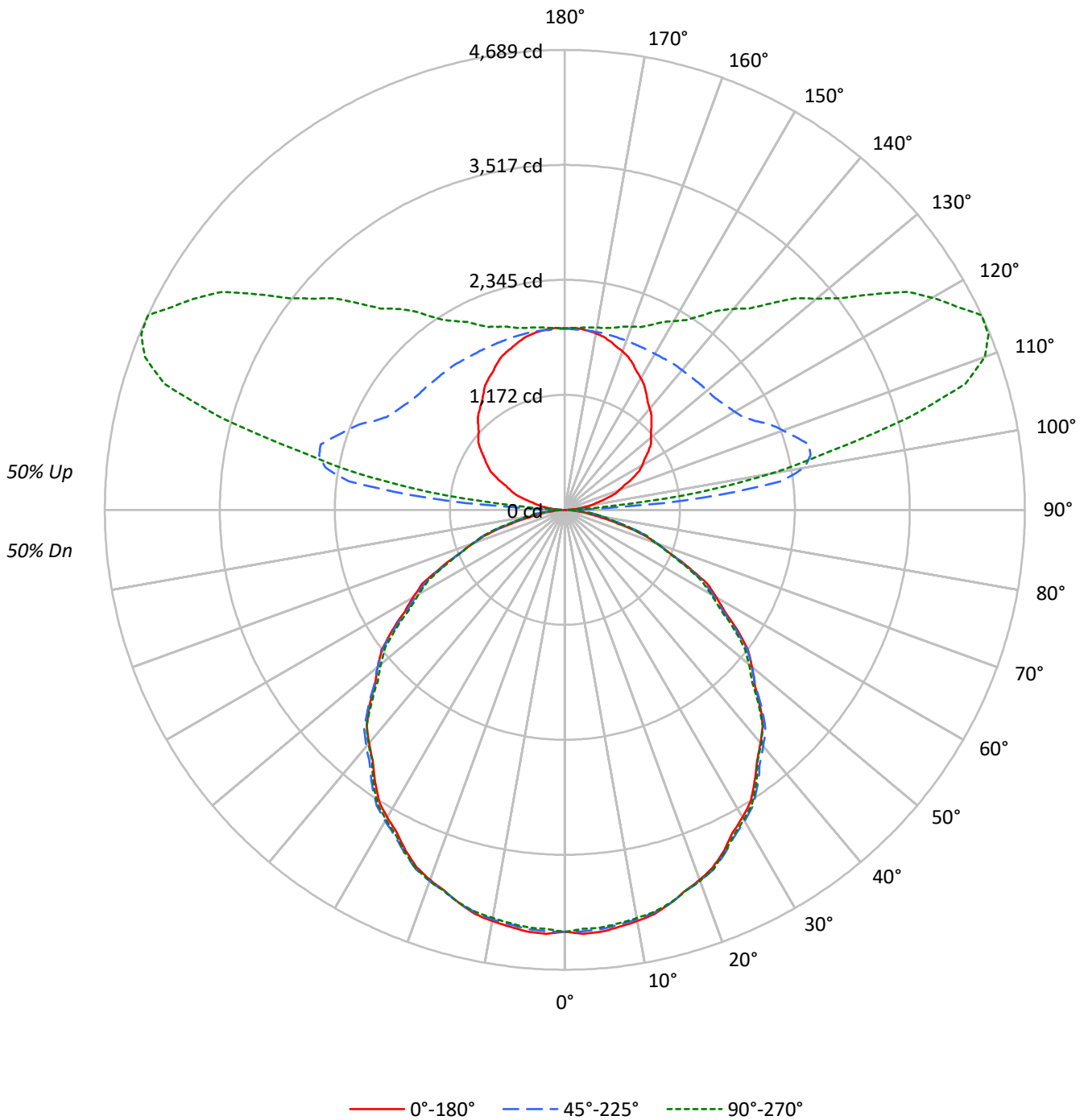
Input Watts (W): 233.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13236	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12858	13014	12957
35°	12667	12861	12772
40°	12457	12633	12506
45°	12231	12318	12127
50°	11911	11911	11721
55°	11533	11384	11213
60°	10976	10756	10584
65°	10146	9943	9855
70°	8883	8954	8919
75°	7147	7904	7952
80°	5079	6702	6773
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	1.7
10°-20°	1168.4	4.9
20°-30°	1769.3	7.5
30°-40°	2121.2	9.0
40°-50°	2162.9	9.1
50°-60°	1888.1	8.0
60°-70°	1351.7	5.7
70°-80°	696.2	2.9
80°-90°	180.4	0.8
90°-100°	864.9	3.7
100°-110°	2329.7	9.8
110°-120°	2444.9	10.3
120°-130°	1984.0	8.4
130°-140°	1556.0	6.6
140°-150°	1194.6	5.0
150°-160°	858.9	3.6
160°-170°	524.8	2.2
170°-180°	177.0	0.7
0°-30°	3344.9	14.1
0°-40°	5466.1	23.1
0°-60°	9517.0	40.2
0°-90°	11745.3	49.6
90°-120°	5639.5	23.8
90°-150°	10374.1	43.8
90°-180°	11935.0	50.4
0°-180°	23680.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4302	4302	4302	4302	4302	
5°	4318	4275	4290	4278	4274	410
15°	4155	4120	4155	4154	4151	1171
25°	3836	3809	3864	3852	3852	1765
35°	3374	3366	3426	3402	3402	2110
45°	2812	2804	2832	2796	2788	2165
55°	2151	2124	2123	2091	2091	1917
65°	1394	1363	1366	1354	1354	1379
75°	602	629	665	669	669	650
85°	88	134	159	163	159	119
90°	5	14	28	31	31	13
95°	132	470	1418	725	502	138
105°	431	670	2576	3855	3617	453
115°	761	931	2146	4146	4689	749
125°	1039	1193	1926	3256	3832	927
135°	1251	1396	1872	2627	2974	965
145°	1446	1559	1849	2246	2412	907
155°	1642	1701	1832	2015	2080	756
165°	1780	1801	1839	1912	1922	502
175°	1851	1849	1842	1868	1863	176
180°	1849	1849	1849	1849	1849	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4302.0	4302.0	4302.0	4302.0	4302.0
2.5°	4327.5	4290.1	4302.0	4292.1	4276.5
5°	4317.9	4275.1	4290.1	4278.0	4274.1
7.5°	4286.9	4244.0	4263.8	4255.7	4251.8
10°	4258.2	4215.3	4238.3	4230.2	4226.3
12.5°	4219.9	4180.2	4206.4	4198.4	4197.6
15°	4154.6	4119.6	4154.6	4154.5	4150.6
17.5°	4072.6	4040.6	4078.1	4080.5	4078.1
20°	4015.2	3980.2	4027.2	4023.3	4027.2
22.5°	3945.1	3916.3	3966.6	3956.3	3960.2
25°	3836.0	3808.7	3863.8	3851.9	3851.9
27.5°	3706.9	3687.4	3747.5	3734.8	3734.8
30°	3620.9	3601.4	3664.7	3648.7	3648.7
32.5°	3525.3	3512.0	3572.3	3553.1	3553.1
35°	3373.9	3366.1	3425.7	3401.8	3401.8
37.5°	3217.7	3210.7	3264.7	3235.9	3226.5
40°	3103.0	3099.1	3146.8	3115.0	3115.0
42.5°	2988.3	2984.4	3025.7	2987.5	2987.5
45°	2812.2	2804.4	2832.2	2796.1	2788.3
47.5°	2620.2	2612.5	2629.8	2590.7	2586.8
50°	2489.6	2481.8	2489.6	2453.6	2449.8
52.5°	2355.7	2341.7	2343.0	2307.1	2306.4
55°	2151.0	2123.7	2123.1	2091.3	2091.3
57.5°	1934.3	1898.5	1901.6	1874.5	1870.6
60°	1784.5	1745.6	1748.7	1724.7	1720.8
62.5°	1637.9	1592.8	1602.1	1575.0	1574.2
65°	1394.2	1363.0	1366.3	1354.3	1354.3
67.5°	1159.9	1131.1	1152.0	1142.4	1141.6
70°	987.9	968.4	995.8	995.7	991.9
72.5°	828.5	827.8	862.0	862.0	864.4
75°	601.5	628.7	665.2	669.2	669.2
77.5°	401.5	449.8	490.0	491.5	490.7
80°	286.8	341.3	378.4	386.3	382.4
82.5°	194.4	252.0	282.8	290.7	286.8
85°	87.6	134.4	159.3	163.2	159.3
87.5°	26.4	56.3	69.4	69.7	63.5
90°	4.7	13.9	28.3	30.6	30.6
92.5°	57.5	203.0	401.3	193.2	134.2
95°	131.9	470.4	1417.8	725.0	501.6
97.5°	210.5	538.5	2223.7	1857.7	1400.8
100°	270.8	565.6	2479.9	2594.7	2152.5
102.5°	329.2	603.7	2564.7	3146.6	2783.7
105°	431.0	670.5	2576.5	3854.6	3617.4
107.5°	527.1	740.8	2466.7	4218.4	4279.7
110°	591.1	793.8	2366.9	4331.4	4554.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	659.0	846.9	2270.8	4306.4	4673.4
115°	760.7	931.1	2145.5	4145.5	4689.0
117.5°	853.5	1013.3	2048.5	3888.8	4494.0
120°	913.8	1068.1	1999.5	3704.5	4326.3
122.5°	966.5	1119.0	1963.7	3516.1	4136.0
125°	1038.6	1192.9	1926.5	3256.0	3831.7
127.5°	1107.8	1259.8	1902.9	3026.7	3540.6
130°	1149.3	1301.3	1893.5	2895.2	3346.6
132.5°	1190.7	1340.9	1884.1	2779.5	3194.0
135°	1250.6	1395.6	1872.3	2626.8	2974.5
137.5°	1307.5	1446.6	1866.2	2497.2	2782.8
140°	1347.1	1480.7	1860.5	2417.5	2675.4
142.5°	1388.6	1512.9	1856.7	2343.1	2560.4
145°	1446.0	1558.9	1848.7	2245.8	2411.6
147.5°	1508.2	1606.3	1840.7	2164.0	2294.3
150°	1549.6	1634.8	1837.0	2112.6	2220.8
152.5°	1587.3	1661.5	1835.1	2070.7	2158.7
155°	1641.5	1701.4	1832.3	2015.1	2079.5
157.5°	1689.1	1735.6	1832.7	1976.0	2019.2
160°	1719.2	1758.4	1834.6	1953.1	1985.3
162.5°	1745.6	1777.4	1836.5	1934.0	1957.1
165°	1780.4	1801.2	1839.3	1912.5	1921.7
167.5°	1808.7	1820.7	1841.7	1895.9	1899.6
170°	1827.5	1832.2	1841.7	1886.4	1886.4
172.5°	1838.9	1839.8	1843.6	1877.0	1877.0
175°	1851.1	1848.8	1841.7	1867.5	1862.9
177.5°	1856.3	1852.6	1843.1	1858.1	1854.4
180°	1848.7	1848.7	1848.7	1848.7	1848.7

(END OF REPORT)