

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: P562963

Luminaire Tested: **SQ4-PC3-100U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562963
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

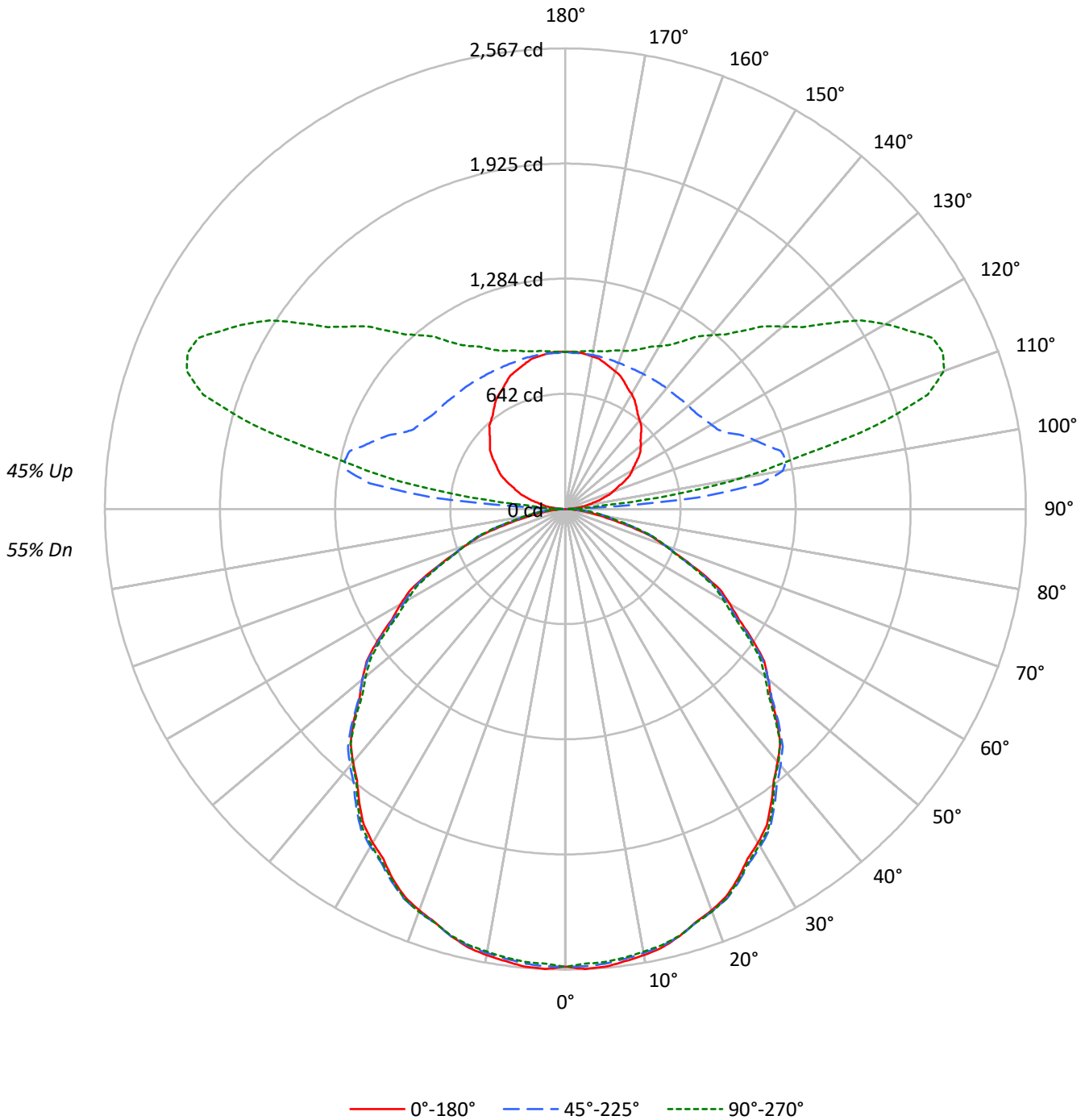
Lumens per Lamp: N/A
Luminaire Lumens: 12651.6 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 107.3
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: P562963
CATALOG NUMBER: SQ4-PC3-100U-125D-830-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P562963

CATALOG NUMBER: SQ4-PC3-100U-125D-830-1D-UNV-STD-W-6

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47		
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17		
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15709	15651
10°	15773	15699	15655
15°	15690	15690	15676
20°	15587	15633	15633
25°	15440	15552	15504
30°	15252	15436	15369
35°	15025	15256	15149
40°	14776	14985	14833
45°	14508	14611	14385
50°	14129	14129	13903
55°	13680	13503	13300
60°	13020	12758	12555
65°	12035	11793	11690
70°	10537	10621	10578
75°	8477	9375	9432
80°	6025	7948	8033
85°	3670	6669	6669



TEST NUMBER: P562963

CATALOG NUMBER: SQ4-PC3-100U-125D-830-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	1.9
10°-20°	692.9	5.5
20°-30°	1049.4	8.3
30°-40°	1258.0	9.9
40°-50°	1282.8	10.1
50°-60°	1119.8	8.9
60°-70°	801.7	6.3
70°-80°	412.9	3.3
80°-90°	106.2	0.8
90°-100°	409.9	3.2
100°-110°	1131.5	8.9
110°-120°	1166.9	9.2
120°-130°	937.7	7.4
130°-140°	736.9	5.8
140°-150°	565.2	4.5
150°-160°	406.2	3.2
160°-170°	248.4	2.0
170°-180°	83.8	0.7
0°-30°	1983.8	15.7
0°-40°	3241.8	25.6
0°-60°	5644.4	44.6
0°-90°	6965.1	55.1
90°-120°	2708.2	21.4
90°-150°	4948.1	39.1
90°-180°	5686.0	44.9
0°-180°	12651.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2551	2551	2551	2551	2551	
5°	2561	2536	2544	2537	2535	243
15°	2464	2443	2464	2464	2462	695
25°	2275	2259	2292	2284	2284	1047
35°	2001	1996	2032	2018	2018	1251
45°	1668	1663	1680	1658	1654	1284
55°	1276	1260	1259	1240	1240	1137
65°	827	808	810	803	803	818
75°	357	373	394	397	397	385
85°	52	80	94	97	94	71
90°	3	6	11	13	14	6
95°	60	222	744	306	199	64
105°	202	311	1245	1900	1790	215
115°	361	437	1003	1985	2257	355
125°	496	564	909	1538	1805	441
135°	596	661	884	1246	1404	462
145°	692	740	872	1060	1141	433
155°	780	806	865	952	982	359
165°	844	855	870	903	910	238
175°	875	876	871	884	881	83
180°	875	875	875	875	875	

TEST NUMBER: P562963

CATALOG NUMBER: SQ4-PC3-100U-125D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2551.4	2551.4	2551.4	2551.4	2551.4
2.5°	2566.6	2544.4	2551.4	2545.6	2536.3
5°	2560.9	2535.5	2544.3	2537.2	2534.9
7.5°	2542.5	2517.0	2528.8	2524.0	2521.7
10°	2525.4	2500.0	2513.6	2508.9	2506.5
12.5°	2502.8	2479.2	2494.7	2490.0	2489.5
15°	2464.0	2443.2	2464.0	2464.0	2461.7
17.5°	2415.4	2396.4	2418.7	2420.0	2418.7
20°	2381.3	2360.5	2388.4	2386.1	2388.4
22.5°	2339.8	2322.7	2352.5	2346.4	2348.7
25°	2275.0	2258.9	2291.6	2284.5	2284.5
27.5°	2198.5	2186.9	2222.6	2215.0	2215.0
30°	2147.5	2135.9	2173.4	2164.0	2164.0
32.5°	2090.8	2082.9	2118.6	2107.3	2107.3
35°	2001.0	1996.4	2031.7	2017.5	2017.5
37.5°	1908.4	1904.2	1936.3	1919.1	1913.6
40°	1840.3	1838.0	1866.3	1847.4	1847.4
42.5°	1772.3	1770.0	1794.5	1771.8	1771.8
45°	1667.9	1663.3	1679.7	1658.3	1653.7
47.5°	1554.0	1549.4	1559.7	1536.5	1534.2
50°	1476.5	1471.9	1476.5	1455.2	1452.9
52.5°	1397.1	1388.8	1389.6	1368.3	1367.9
55°	1275.7	1259.5	1259.2	1240.3	1240.3
57.5°	1147.2	1125.9	1127.8	1111.7	1109.4
60°	1058.4	1035.3	1037.1	1022.9	1020.6
62.5°	971.4	944.6	950.2	934.1	933.6
65°	826.9	808.4	810.3	803.2	803.2
67.5°	687.9	670.8	683.2	677.5	677.1
70°	585.9	574.3	590.6	590.6	588.2
72.5°	491.4	490.9	511.2	511.3	512.6
75°	356.7	372.9	394.5	396.9	396.9
77.5°	238.1	266.8	290.6	291.5	291.1
80°	170.1	202.4	224.4	229.1	226.8
82.5°	115.3	149.5	167.7	172.4	170.1
85°	52.0	79.7	94.5	96.8	94.5
87.5°	15.7	32.9	40.0	40.2	36.8
90°	2.8	5.5	11.2	12.6	14.0
92.5°	25.2	104.6	187.1	68.3	53.2
95°	60.2	221.8	743.6	305.6	198.8
97.5°	99.7	248.4	1101.5	848.0	614.2
100°	128.8	264.4	1233.7	1242.4	1009.6
102.5°	156.8	282.5	1259.4	1535.0	1314.3
105°	201.6	311.2	1244.9	1900.5	1789.6
107.5°	249.3	346.7	1175.4	2076.7	2117.2
110°	282.9	370.5	1121.6	2114.6	2246.1

TEST NUMBER: P562963

CATALOG NUMBER: SQ4-PC3-100U-125D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	313.1	397.4	1071.2	2084.7	2278.5
115°	361.3	436.6	1002.6	1984.8	2257.3
117.5°	403.3	478.3	957.5	1844.2	2154.2
120°	431.3	505.2	939.6	1749.1	2061.2
122.5°	458.2	528.8	925.0	1660.2	1955.9
125°	495.7	564.2	908.8	1538.0	1805.0
127.5°	527.6	596.1	899.3	1434.6	1664.9
130°	548.9	617.4	894.8	1371.4	1580.9
132.5°	569.1	634.2	890.3	1318.3	1508.1
135°	596.5	660.9	883.6	1245.7	1404.5
137.5°	627.3	685.9	880.2	1184.6	1320.2
140°	644.1	701.6	878.0	1143.9	1263.1
142.5°	663.2	716.3	875.7	1107.8	1212.6
145°	691.7	739.7	872.4	1060.5	1141.2
147.5°	719.2	761.1	869.3	1020.6	1083.3
150°	739.4	773.6	868.2	996.8	1047.4
152.5°	755.0	787.1	867.1	976.4	1018.3
155°	780.0	806.0	865.4	951.5	981.6
157.5°	802.9	822.9	865.7	933.3	953.9
160°	816.4	834.2	866.8	923.1	938.2
162.5°	827.6	843.2	867.9	914.1	925.9
165°	844.4	855.3	869.6	903.3	910.2
167.5°	857.3	863.8	871.0	896.8	899.0
170°	864.0	869.5	871.0	893.4	893.4
172.5°	869.6	872.9	871.0	888.9	887.8
175°	875.2	876.5	871.0	883.5	880.8
177.5°	877.4	876.3	870.7	878.5	876.3
180°	875.2	875.2	875.2	875.2	875.2

(END OF REPORT)