

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: P562769

Luminaire Tested: **SQ4-PC3-075U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562769  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PC3-075U-125D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

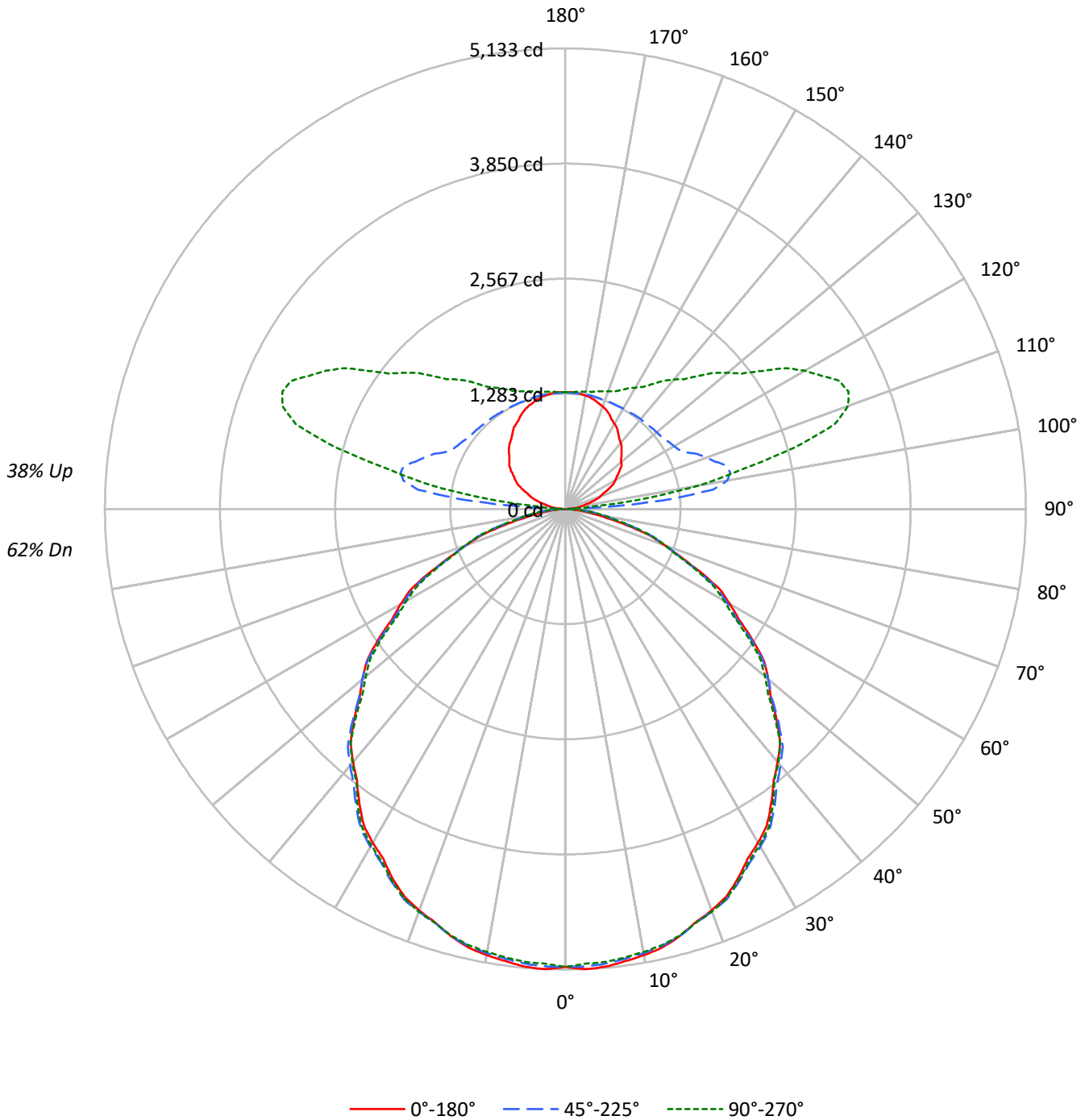
Lumens per Lamp: N/A  
Luminaire Lumens: 22407.5 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 194.8  
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



TEST NUMBER: P562769  
CATALOG NUMBER: SQ4-PC3-075U-125D-830-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P562769

CATALOG NUMBER: SQ4-PC3-075U-125D-830-1D-UNV-STD-W-12

**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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15693	15693	15693
5°	15812	15710	15651
10°	15773	15699	15655
15°	15690	15690	15675
20°	15587	15633	15633
25°	15440	15552	15504
30°	15252	15437	15369
35°	15025	15256	15149
40°	14777	14985	14834
45°	14508	14611	14385
50°	14129	14129	13903
55°	13680	13503	13300
60°	13019	12758	12554
65°	12034	11793	11691
70°	10537	10621	10579
75°	8478	9376	9432
80°	6025	7950	8033
85°	3666	6669	6669



TEST NUMBER: P562769

CATALOG NUMBER: SQ4-PC3-075U-125D-830-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.9	2.2
10°-20°	1385.9	6.2
20°-30°	2098.7	9.4
30°-40°	2516.1	11.2
40°-50°	2565.6	11.4
50°-60°	2239.6	10.0
60°-70°	1603.3	7.2
70°-80°	825.8	3.7
80°-90°	212.1	0.9
90°-100°	613.7	2.7
100°-110°	1688.6	7.5
110°-120°	1742.9	7.8
120°-130°	1396.4	6.2
130°-140°	1096.8	4.9
140°-150°	840.5	3.8
150°-160°	604.3	2.7
160°-170°	369.5	1.6
170°-180°	124.6	0.6
0°-30°	3967.5	17.7
0°-40°	6483.6	28.9
0°-60°	11288.7	50.4
0°-90°	13930.0	62.2
90°-120°	4045.3	18.1
90°-150°	7379.0	32.9
90°-180°	8477.0	37.8
0°-180°	22407.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5103	5103	5103	5103	5103	
5°	5122	5071	5089	5074	5070	486
15°	4928	4886	4928	4928	4923	1390
25°	4550	4518	4583	4569	4569	2094
35°	4002	3993	4063	4035	4035	2503
45°	3336	3326	3359	3317	3307	2568
55°	2551	2519	2518	2481	2481	2274
65°	1654	1617	1621	1606	1606	1636
75°	714	746	789	794	794	771
85°	104	159	189	194	189	141
90°	3	11	19	25	25	10
95°	91	335	1085	464	296	97
105°	302	464	1861	2834	2644	318
115°	534	651	1492	2972	3372	527
125°	736	839	1354	2290	2683	657
135°	889	986	1315	1852	2096	686
145°	1027	1098	1296	1578	1700	644
155°	1163	1201	1288	1418	1459	534
165°	1257	1273	1293	1346	1354	354
175°	1301	1304	1296	1312	1310	124
180°	1301	1301	1301	1301	1301	

TEST NUMBER: P562769

CATALOG NUMBER: SQ4-PC3-075U-125D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5102.9	5102.9	5102.9	5102.9	5102.9
2.5°	5133.1	5088.8	5102.9	5091.1	5072.6
5°	5121.8	5070.9	5088.7	5074.4	5069.8
7.5°	5084.9	5034.1	5057.5	5048.0	5043.3
10°	5050.9	5000.1	5027.3	5017.7	5013.1
12.5°	5005.5	4958.4	4989.5	4980.0	4979.1
15°	4928.0	4886.5	4928.0	4927.9	4923.3
17.5°	4830.7	4792.8	4837.3	4840.1	4837.3
20°	4762.7	4721.1	4776.8	4772.2	4776.8
22.5°	4679.5	4645.3	4705.0	4692.9	4697.5
25°	4550.1	4517.7	4583.1	4569.0	4569.0
27.5°	4397.0	4373.9	4445.2	4430.0	4430.0
30°	4294.9	4271.8	4346.9	4328.0	4328.0
32.5°	4181.5	4165.8	4237.3	4214.6	4214.6
35°	4002.0	3992.7	4063.4	4035.0	4035.0
37.5°	3816.8	3808.4	3872.5	3838.2	3827.1
40°	3680.7	3676.1	3732.7	3694.9	3694.9
42.5°	3544.6	3540.0	3589.0	3543.7	3543.7
45°	3335.8	3326.5	3359.4	3316.7	3307.4
47.5°	3108.0	3098.8	3119.4	3073.0	3068.3
50°	2953.0	2943.8	2953.0	2910.4	2905.8
52.5°	2794.3	2777.7	2779.2	2736.6	2735.7
55°	2551.4	2519.1	2518.4	2480.6	2480.6
57.5°	2294.4	2251.9	2255.7	2223.4	2218.8
60°	2116.7	2070.5	2074.2	2045.8	2041.1
62.5°	1942.9	1889.3	1900.3	1868.2	1867.3
65°	1653.7	1616.7	1620.6	1606.5	1606.5
67.5°	1375.9	1341.7	1366.4	1355.1	1354.1
70°	1171.8	1148.7	1181.2	1181.1	1176.5
72.5°	982.8	981.8	1022.5	1022.5	1025.3
75°	713.5	745.8	789.1	793.8	793.8
77.5°	476.3	533.6	581.2	583.0	582.1
80°	340.2	404.9	448.9	458.2	453.6
82.5°	230.6	298.9	335.5	344.8	340.2
85°	103.9	159.4	189.0	193.6	189.0
87.5°	30.8	65.7	79.5	80.4	73.0
90°	2.8	10.9	19.4	24.9	24.9
92.5°	38.2	163.3	283.0	108.6	89.2
95°	91.4	335.0	1085.3	464.1	296.3
97.5°	149.0	371.5	1656.2	1276.1	900.4
100°	191.0	394.1	1835.7	1852.8	1511.7
102.5°	230.9	421.0	1882.2	2298.7	1985.7
105°	301.8	464.2	1860.6	2833.6	2644.1
107.5°	369.3	517.7	1754.8	3095.6	3151.9
110°	418.1	553.4	1675.1	3160.8	3355.7

TEST NUMBER: P562769

CATALOG NUMBER: SQ4-PC3-075U-125D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	462.4	593.4	1595.3	3118.8	3415.5
115°	534.4	650.8	1492.3	2971.6	3372.3
117.5°	603.0	710.2	1427.0	2765.2	3218.4
120°	645.1	748.0	1398.2	2610.5	3078.8
122.5°	682.8	785.6	1378.3	2474.8	2919.3
125°	736.5	839.4	1353.9	2290.3	2682.9
127.5°	787.4	885.4	1337.8	2136.4	2480.8
130°	814.0	914.2	1329.0	2044.9	2358.9
132.5°	845.0	945.2	1322.3	1964.5	2248.2
135°	888.8	986.2	1315.1	1852.3	2095.9
137.5°	929.7	1020.2	1309.0	1761.6	1962.5
140°	960.7	1044.7	1306.8	1701.3	1882.7
142.5°	987.3	1064.7	1302.4	1647.6	1803.0
145°	1027.2	1097.6	1295.8	1578.2	1700.0
147.5°	1069.8	1130.5	1292.4	1516.7	1614.2
150°	1096.4	1150.6	1290.2	1483.0	1558.8
152.5°	1120.8	1170.6	1288.0	1453.9	1516.7
155°	1162.9	1200.8	1287.5	1418.5	1459.1
157.5°	1193.3	1224.2	1287.5	1389.4	1417.6
160°	1215.5	1239.8	1287.5	1373.8	1395.4
162.5°	1233.2	1253.2	1289.7	1360.4	1377.7
165°	1257.0	1273.2	1293.0	1345.8	1353.9
167.5°	1273.6	1286.1	1295.8	1333.5	1335.6
170°	1284.7	1292.8	1295.8	1329.0	1329.0
172.5°	1293.5	1297.3	1295.8	1322.3	1320.1
175°	1301.3	1304.0	1295.8	1312.3	1309.6
177.5°	1303.5	1303.5	1294.7	1307.8	1303.5
180°	1301.3	1301.3	1301.3	1301.3	1301.3

(END OF REPORT)