

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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

Brand: CORELITE

Report Number: P937329

Luminaire Tested: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937329
REPORT IS A COMBINATION OF REPORTS P933496 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

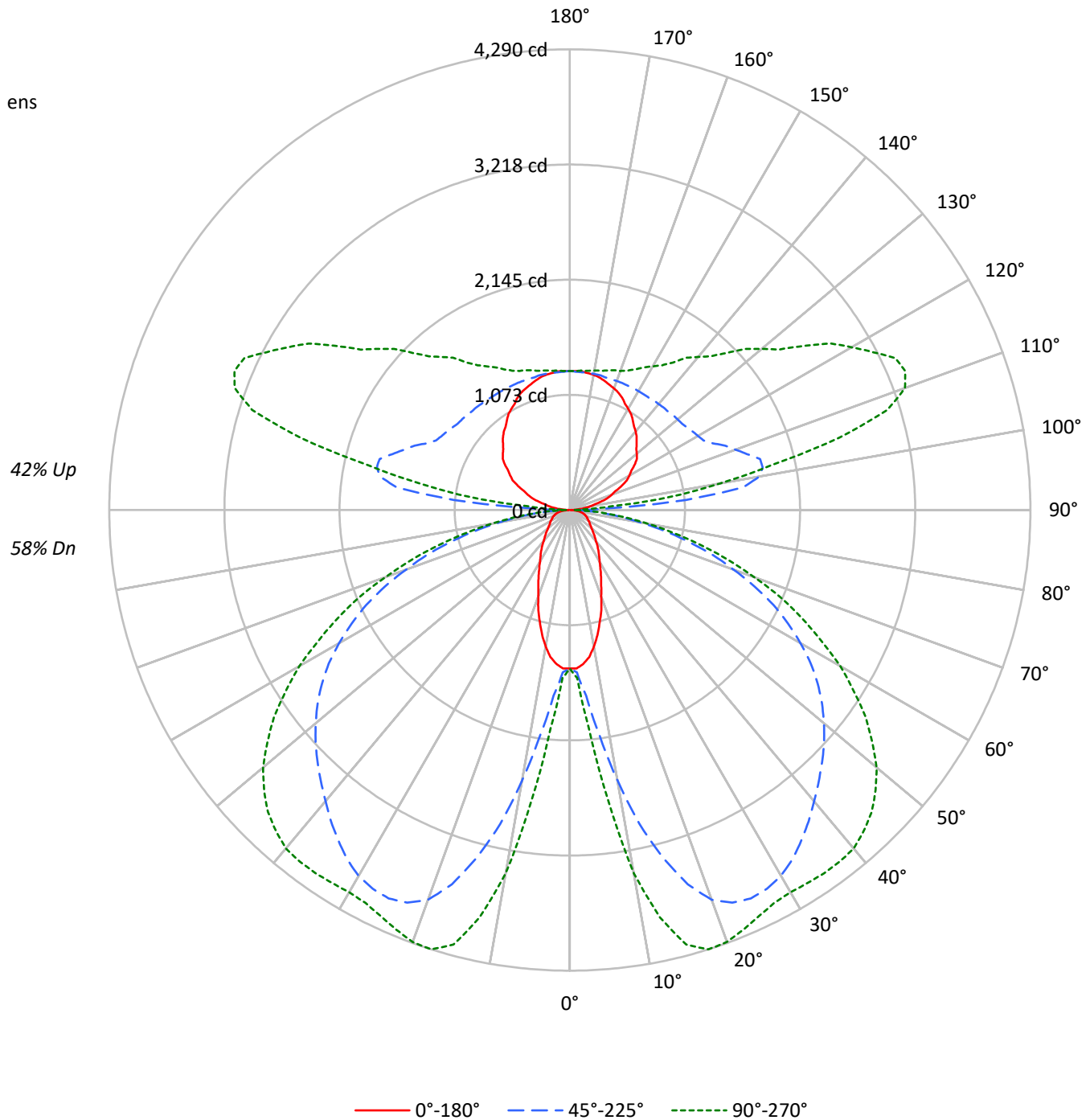
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19817.7 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 186
Input Voltage (V): NR
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: P937329
CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P937329

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K

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	50	30	10	0
RCR																					
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58			58
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	53	52	47			47
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43	38			38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	41	41	38	36	32			32
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	36	33	30	27			27
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	33	29	26	23			23
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19			19
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17			17
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15			15
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15	13			13
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14	12			12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4565	4565	4565
5°	4461	5277	6136
10°	4048	7694	10172
15°	3442	10055	12282
20°	2803	11655	12518
25°	2339	12199	12263
30°	1973	12279	12240
35°	1746	12079	12556
40°	1522	11817	12884
45°	1379	11627	12934
50°	1266	11455	12720
55°	1214	11204	12156
60°	1244	10717	11266
65°	1296	9974	10043
70°	1385	8704	8484
75°	1539	7104	6621
80°	1694	4933	4461
85°	1539	2621	2283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12934 cd/sqm



TEST NUMBER: P937329

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	1.0
10°-20°	846.1	4.3
20°-30°	1479.9	7.5
30°-40°	1905.1	9.6
40°-50°	2127.9	10.7
50°-60°	2038.0	10.3
60°-70°	1615.1	8.2
70°-80°	949.7	4.8
80°-90°	268.8	1.4
90°-100°	631.3	3.2
100°-110°	1659.8	8.4
110°-120°	1721.1	8.7
120°-130°	1380.5	7.0
130°-140°	1083.2	5.5
140°-150°	831.4	4.2
150°-160°	598.7	3.0
160°-170°	366.3	1.8
170°-180°	123.8	0.6
0°-30°	2516.8	12.7
0°-40°	4421.9	22.3
0°-60°	8587.8	43.3
0°-90°	11421.5	57.6
90°-120°	4012.2	20.2
90°-150°	7307.3	36.9
90°-180°	8396.0	42.4
0°-180°	19817.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1438	1542	1737	1965	2036	133
15°	1077	1988	3350	4062	4190	300
25°	688	2254	3991	4166	4171	317
35°	465	2154	3758	3972	4128	290
45°	318	1718	3322	3806	3976	246
55°	228	1091	2819	3274	3364	208
65°	180	579	2093	2354	2387	179
75°	133	356	1148	1262	1267	139
85°	48	109	285	313	318	50
90°	9	24	66	33	33	10
95°	84	327	1087	561	382	93
105°	299	453	1835	2786	2599	317
115°	531	645	1470	2932	3347	525
125°	739	828	1337	2259	2665	656
135°	881	969	1295	1824	2068	681
145°	1021	1087	1279	1556	1678	640
155°	1154	1186	1279	1404	1445	530
165°	1246	1262	1279	1329	1346	352
175°	1295	1295	1287	1304	1304	123
180°	1295	1295	1295	1295	1295	



TEST NUMBER: P937329

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8	1475.8
2.5°	1475.8	1475.8	1485.2	1490.0	1499.5	1504.2	1513.8	1523.2	1551.7	1556.5	1565.9
5°	1437.8	1456.7	1518.4	1542.2	1608.6	1698.8	1736.8	1798.5	1926.5	1964.6	1988.2
7.5°	1380.8	1423.6	1575.4	1613.4	1779.5	2016.7	2116.4	2249.3	2453.3	2553.0	2633.6
10°	1290.7	1380.8	1651.3	1741.5	2012.0	2372.6	2557.6	2742.7	3051.2	3188.7	3241.0
12.5°	1191.1	1338.1	1732.0	1855.4	2244.5	2771.2	2994.2	3198.3	3549.5	3734.5	3762.9
15°	1077.2	1276.4	1807.9	1988.2	2491.3	3103.4	3350.1	3601.6	3929.0	4062.0	4095.1
17.5°	977.5	1229.0	1879.1	2068.9	2681.0	3402.3	3653.9	3862.6	4128.3	4218.5	4242.3
20°	854.1	1153.1	1926.5	2173.3	2880.4	3620.6	3862.6	4023.9	4204.3	4261.2	4270.7
22.5°	763.9	1072.4	1955.0	2211.2	3013.2	3753.5	3957.5	4085.6	4209.0	4228.0	4232.7
25°	688.0	982.3	1950.3	2254.0	3127.1	3834.2	3990.7	4085.6	4156.8	4166.3	4166.3
27.5°	616.9	882.6	1931.3	2263.5	3212.5	3853.1	3976.5	4042.9	4076.2	4095.1	4095.1
30°	555.2	787.7	1883.8	2244.5	3250.4	3834.2	3933.8	3967.0	4000.3	4028.7	4042.9
32.5°	507.7	697.6	1812.7	2206.6	3255.2	3786.7	3857.9	3876.9	3924.3	3990.7	4014.5
35°	465.0	607.4	1732.0	2154.3	3226.8	3710.8	3758.2	3777.2	3872.1	3971.8	4004.9
37.5°	422.3	540.9	1627.6	2064.2	3184.1	3620.6	3653.9	3687.0	3834.2	3952.8	3990.7
40°	379.6	484.0	1504.2	1964.6	3117.6	3511.5	3539.9	3592.2	3786.7	3924.3	3962.2
42.5°	346.4	436.6	1371.4	1860.2	3032.2	3388.1	3430.8	3506.7	3729.8	3876.9	3919.6
45°	317.9	389.1	1229.0	1717.8	2923.0	3260.0	3321.7	3426.1	3663.3	3805.7	3843.6
47.5°	289.5	355.9	1081.9	1570.7	2804.4	3131.8	3212.5	3331.1	3573.2	3710.8	3744.0
50°	265.7	322.7	934.8	1414.1	2676.3	2994.2	3089.1	3212.5	3459.3	3587.4	3630.1
52.5°	246.8	294.2	797.2	1257.5	2529.2	2851.9	2961.1	3089.1	3321.7	3445.0	3473.5
55°	227.8	270.5	678.6	1091.4	2377.3	2700.0	2818.7	2942.1	3169.8	3274.2	3293.2
57.5°	218.3	251.5	579.0	934.8	2216.0	2529.2	2662.0	2776.0	2989.5	3070.1	3089.1
60°	204.0	237.2	503.0	802.0	2040.5	2367.9	2481.7	2595.7	2776.0	2842.3	2856.6
62.5°	189.8	227.8	446.0	673.8	1860.2	2178.1	2291.9	2396.3	2548.2	2595.7	2614.7
65°	180.3	218.3	403.3	579.0	1675.1	1978.8	2092.6	2182.8	2306.2	2353.6	2363.1
67.5°	170.9	208.8	370.1	498.3	1490.0	1779.5	1864.8	1950.3	2045.2	2092.6	2097.4
70°	156.6	199.3	341.6	441.3	1300.2	1551.7	1622.8	1713.0	1788.9	1812.7	1826.9
72.5°	147.1	185.1	322.7	398.6	1105.7	1333.5	1399.8	1452.1	1518.4	1542.2	1542.2
75°	132.8	166.1	303.7	355.9	906.3	1091.4	1148.4	1200.5	1252.7	1262.2	1248.0
77.5°	118.6	147.1	261.0	298.9	707.0	863.7	911.1	939.6	982.3	991.7	996.5
80°	99.6	128.1	204.0	232.6	512.5	635.9	669.1	692.8	730.8	730.8	740.3
82.5°	75.9	99.6	147.1	166.1	346.4	436.6	465.0	479.2	503.0	503.0	503.0
85°	47.5	61.7	94.9	109.2	208.8	265.7	284.7	289.5	308.5	313.2	313.2
87.5°	23.7	33.2	61.7	66.5	109.2	137.6	137.6	147.1	147.1	142.4	137.6
90°	8.7	15.6	22.5	24.3	38.2	56.8	66.1	58.7	44.0	33.0	33.0
92.5°	34.8	93.8	153.0	167.8	235.8	326.6	372.0	326.0	234.1	165.2	158.6
95°	83.5	191.6	299.9	326.9	580.4	918.4	1087.4	970.4	736.3	560.6	540.7
97.5°	144.3	239.8	335.2	359.0	781.8	1345.4	1627.2	1553.2	1405.2	1294.3	1256.4
100°	191.2	277.8	364.3	385.9	855.1	1480.5	1793.2	1798.7	1809.5	1817.6	1772.5
102.5°	231.2	312.0	392.7	412.9	888.6	1523.0	1840.2	1934.5	2123.0	2264.4	2225.8
105°	299.0	367.4	435.8	452.9	913.6	1527.9	1835.0	2046.4	2469.0	2786.0	2765.2
107.5°	368.6	432.3	496.0	512.0	918.3	1459.9	1730.7	2025.5	2615.0	3057.1	3062.2
110°	415.5	473.1	530.6	545.0	911.2	1399.6	1643.8	1973.4	2632.4	3126.7	3148.3



TEST NUMBER: P937329

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	461.6	516.4	571.3	585.0	911.6	1347.0	1564.7	1901.9	2576.5	3082.4	3115.6
115°	531.1	581.7	632.3	644.9	919.9	1286.6	1469.9	1794.8	2444.6	2932.0	2978.1
117.5°	599.8	645.8	691.7	703.2	937.0	1248.8	1404.7	1697.9	2284.3	2724.2	2775.3
120°	639.8	683.1	726.3	737.1	951.0	1236.1	1378.6	1646.5	2182.4	2584.3	2633.9
122.5°	678.9	722.5	766.2	777.1	971.0	1229.4	1358.6	1599.8	2082.4	2444.3	2493.3
125°	738.9	778.7	818.5	828.4	997.9	1223.9	1336.9	1541.9	1951.8	2259.2	2304.3
127.5°	787.6	827.8	868.0	878.0	1024.9	1220.7	1318.7	1494.7	1846.6	2110.6	2148.6
130°	813.7	856.9	900.1	911.0	1044.5	1222.6	1311.7	1468.3	1781.6	2016.6	2051.8
132.5°	840.6	883.9	927.0	937.9	1060.4	1223.9	1305.6	1445.8	1726.3	1936.7	1968.2
135°	880.6	919.9	959.4	969.2	1077.9	1222.8	1295.2	1412.6	1647.5	1823.7	1850.8
137.5°	921.4	960.4	999.5	1009.2	1104.0	1230.3	1293.4	1392.7	1591.3	1740.2	1762.5
140°	955.3	991.2	1027.1	1036.1	1119.9	1231.6	1287.4	1373.2	1544.7	1673.3	1694.1
142.5°	981.3	1014.6	1047.8	1056.1	1133.2	1236.0	1287.4	1362.7	1513.4	1626.4	1644.2
145°	1021.4	1050.3	1079.3	1086.6	1150.6	1236.0	1278.7	1340.3	1463.6	1556.0	1569.6
147.5°	1061.4	1089.6	1117.8	1124.8	1176.1	1244.5	1278.7	1327.2	1424.1	1496.8	1508.1
150°	1087.4	1113.0	1138.5	1144.8	1189.4	1249.0	1278.7	1319.6	1401.5	1462.9	1472.0
152.5°	1114.4	1133.7	1153.0	1157.8	1198.1	1251.9	1278.7	1313.6	1383.6	1436.0	1442.8
155°	1154.4	1168.7	1183.0	1186.5	1217.3	1258.2	1278.7	1306.5	1362.1	1403.8	1408.4
157.5°	1183.9	1197.8	1211.8	1215.2	1236.3	1264.6	1278.7	1300.3	1343.5	1376.0	1379.2
160°	1203.9	1214.7	1225.6	1228.3	1245.1	1267.5	1278.7	1297.2	1334.3	1362.1	1364.0
162.5°	1223.9	1232.0	1240.1	1242.1	1254.3	1270.5	1278.7	1294.3	1325.6	1349.1	1350.8
165°	1245.7	1253.0	1260.3	1262.1	1267.6	1275.0	1278.7	1289.9	1312.2	1329.1	1330.9
167.5°	1265.6	1269.1	1272.6	1273.4	1278.1	1284.3	1287.4	1294.7	1309.3	1320.4	1321.1
170°	1278.7	1282.1	1285.7	1286.5	1286.8	1287.2	1287.4	1294.7	1309.3	1320.4	1320.4
172.5°	1285.6	1286.3	1287.2	1287.4	1287.4	1287.4	1287.4	1293.2	1304.8	1313.4	1312.8
175°	1295.2	1295.2	1295.2	1295.2	1292.6	1289.1	1287.4	1291.0	1298.4	1303.9	1303.9
177.5°	1295.2	1295.2	1295.2	1295.2	1293.2	1290.5	1289.1	1292.0	1297.8	1302.1	1301.4
180°	1295.2	1295.2	1295.2	1295.2	1295.2	1295.2	1295.2	1295.2	1295.2	1295.2	1295.2



TEST NUMBER: P937329

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	1475.8	1475.8
2.5°	1575.4	1565.9
5°	2026.3	2035.7
7.5°	2728.5	2723.7
10°	3392.8	3435.5
12.5°	3876.9	3886.3
15°	4171.0	4190.0
17.5°	4285.0	4289.6
20°	4289.6	4280.2
22.5°	4237.5	4228.0
25°	4175.8	4171.0
27.5°	4118.9	4123.6
30°	4095.1	4109.3
32.5°	4095.1	4118.9
35°	4104.6	4128.3
37.5°	4099.9	4128.3
40°	4080.9	4114.1
42.5°	4028.7	4052.4
45°	3948.0	3976.5
47.5°	3843.6	3862.6
50°	3710.8	3729.8
52.5°	3544.7	3549.5
55°	3345.4	3364.4
57.5°	3131.8	3136.6
60°	2894.6	2908.8
62.5°	2643.1	2643.1
65°	2377.3	2386.9
67.5°	2102.2	2125.9
70°	1822.2	1826.9
72.5°	1546.9	1546.9
75°	1262.2	1267.0
77.5°	991.7	991.7
80°	735.5	740.3
82.5°	507.7	517.3
85°	317.9	317.9
87.5°	147.1	132.8
90°	33.0	33.0
92.5°	132.4	106.1
95°	461.2	381.6
97.5°	1105.0	953.6
100°	1592.1	1411.7
102.5°	2071.2	1916.7
105°	2682.1	2599.0
107.5°	3082.3	3102.4
110°	3234.8	3321.4



TEST NUMBER: P937329
CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	3248.5	3381.4
115°	3162.3	3346.6
117.5°	2979.7	3184.1
120°	2832.5	3031.1
122.5°	2689.1	2885.1
125°	2484.7	2665.1
127.5°	2300.9	2453.0
130°	2192.4	2333.1
132.5°	2094.1	2220.1
135°	1959.4	2067.9
137.5°	1851.3	1940.2
140°	1777.2	1860.2
142.5°	1715.7	1787.2
145°	1623.6	1677.6
147.5°	1552.8	1597.7
150°	1508.3	1544.7
152.5°	1470.3	1497.7
155°	1426.5	1444.7
157.5°	1392.0	1404.7
160°	1371.3	1378.6
162.5°	1357.8	1364.8
165°	1338.2	1345.6
167.5°	1324.3	1327.4
170°	1320.4	1320.4
172.5°	1310.1	1307.4
175°	1303.9	1303.9
177.5°	1298.3	1295.2
180°	1295.2	1295.2



TEST NUMBER: P937329
 CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-12-5000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	6.95	7.93	7.83	8.84	10.00	20.14	21.12	21.02	22.03	23.19
	3H	7.67	8.55	8.56	9.47	10.64	22.00	22.88	22.89	23.80	24.98
	4H	7.97	8.81	8.88	9.73	10.92	22.65	23.49	23.56	24.41	25.60
	6H	8.23	9.00	9.15	9.93	11.13	23.09	23.86	24.01	24.79	26.00
	8H	8.30	9.03	9.23	9.98	11.18	23.22	23.96	24.15	24.90	26.10
	12H	8.32	9.02	9.25	9.96	11.19	23.29	24.00	24.23	24.94	26.16
4H	2H	14.19	15.03	15.10	15.95	17.14	20.43	21.27	21.34	22.19	23.38
	3H	15.77	16.47	16.69	17.42	18.63	22.49	23.19	23.42	24.15	25.35
	4H	15.87	16.51	16.80	17.46	18.68	23.27	23.91	24.20	24.86	26.09
	6H	15.89	16.44	16.83	17.41	18.64	23.82	24.37	24.77	25.35	26.57
	8H	15.87	16.38	16.82	17.35	18.59	23.99	24.51	24.94	25.47	26.72
	12H	15.83	16.30	16.80	17.28	18.53	24.09	24.56	25.06	25.54	26.79
8H	4H	17.33	17.84	18.28	18.81	20.05	23.34	23.86	24.29	24.82	26.07
	6H	17.57	18.00	18.55	19.01	20.25	23.98	24.41	24.96	25.42	26.66
	8H	17.59	17.97	18.58	18.97	20.23	24.20	24.58	25.19	25.58	26.84
	12H	17.57	17.90	18.56	18.89	20.20	24.36	24.69	25.35	25.68	26.99
12H	4H	17.48	17.95	18.45	18.93	20.18	23.30	23.77	24.27	24.75	26.00
	6H	17.84	18.22	18.82	19.21	20.47	23.96	24.35	24.95	25.34	26.60
	8H	17.91	18.25	18.90	19.24	20.54	24.20	24.54	25.19	25.53	26.83