

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: P938138

Luminaire Tested: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

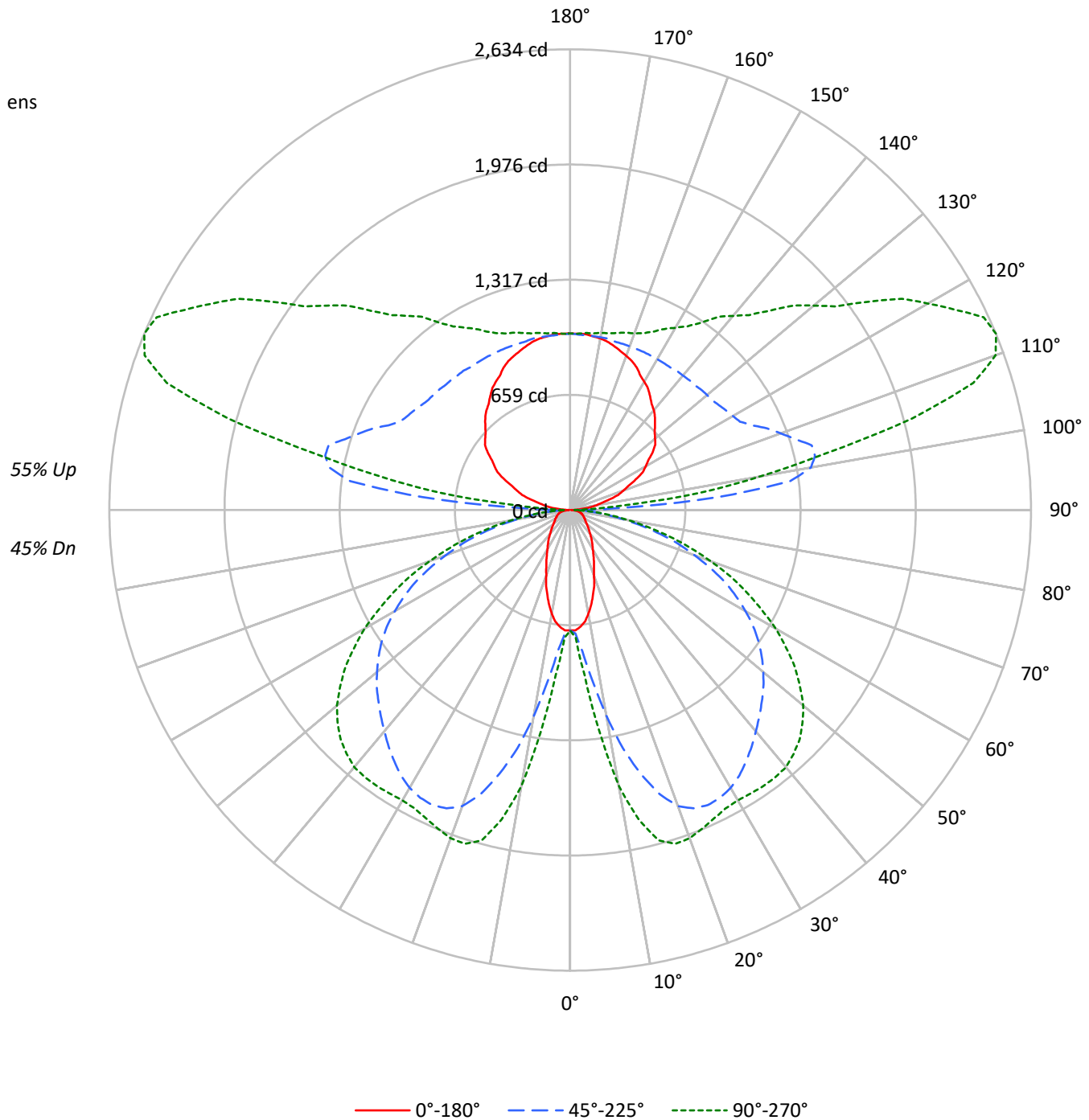
Test Method: LM-79-2019  
Report Number: P938138  
REPORT IS A COMBINATION OF REPORTS P933608 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11871.0 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 112.8  
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: P938138  
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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	92	88	84	88	84	81	77	70	67	65	57	55	53	45	44	42	37
2	87	79	73	68	79	73	67	63	61	56	53	49	46	44	39	37	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29	25
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25	21
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	27	23	21	18
6	60	48	40	34	55	44	37	31	37	31	27	30	26	23	24	21	18	15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	22	18	16	13
8	52	39	31	26	47	36	29	24	30	25	21	25	20	17	20	16	14	12
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12	10
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	13	11	9

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

	0°	45°	90°
0°	4259	4259	4259
5°	4159	4921	5724
10°	3771	7171	9490
15°	3204	9367	11459
20°	2607	10852	11678
25°	2174	11353	11441
30°	1832	11422	11419
35°	1620	11229	11715
40°	1410	10980	12020
45°	1276	10796	12067
50°	1169	10630	11867
55°	1119	10389	11341
60°	1144	9928	10511
65°	1190	9230	9369
70°	1264	8043	7915
75°	1395	6553	6177
80°	1513	4539	4162
85°	1318	2404	2130

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12067 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	0.8
10°-20°	394.7	3.3
20°-30°	690.3	5.8
30°-40°	888.7	7.5
40°-50°	992.6	8.4
50°-60°	950.7	8.0
60°-70°	753.4	6.3
70°-80°	443.0	3.7
80°-90°	126.9	1.1
90°-100°	491.9	4.1
100°-110°	1293.2	10.9
110°-120°	1340.9	11.3
120°-130°	1075.6	9.1
130°-140°	843.9	7.1
140°-150°	647.8	5.5
150°-160°	466.5	3.9
160°-170°	285.4	2.4
170°-180°	96.4	0.8
0°-30°	1174.1	9.9
0°-40°	2062.7	17.4
0°-60°	4006.0	33.7
0°-90°	5329.4	44.9
90°-120°	3126.0	26.3
90°-150°	5693.3	48.0
90°-180°	6542.0	55.1
0°-180°	11871.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	671	719	810	916	950	62
15°	502	928	1563	1895	1955	140
25°	321	1051	1862	1944	1946	148
35°	217	1005	1753	1853	1926	135
45°	148	801	1549	1775	1855	115
55°	106	509	1315	1527	1569	97
65°	84	270	976	1098	1113	83
75°	62	166	536	589	591	65
85°	22	51	133	146	148	23
90°	7	19	52	26	26	7
95°	65	255	847	437	297	72
105°	233	353	1430	2171	2025	247
115°	414	503	1145	2284	2607	409
125°	576	645	1042	1760	2076	511
135°	686	755	1009	1421	1611	531
145°	796	847	996	1212	1307	499
155°	899	924	996	1094	1126	413
165°	970	983	996	1036	1048	274
175°	1009	1009	1003	1016	1016	96
180°	1009	1009	1009	1009	1009	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	688.4	688.4	692.8	695.0	699.5	701.7	706.1	710.5	723.8	726.1	730.5
5°	670.7	679.6	708.4	719.4	750.4	792.4	810.1	838.9	898.7	916.4	927.5
7.5°	644.2	664.1	734.9	752.6	830.1	940.8	987.2	1049.2	1144.4	1190.8	1228.5
10°	602.1	644.2	770.3	812.4	938.6	1106.8	1193.1	1279.4	1423.3	1487.5	1511.8
12.5°	555.6	624.2	807.9	865.5	1047.0	1292.7	1396.7	1491.9	1655.7	1742.1	1755.3
15°	502.5	595.4	843.3	927.5	1162.1	1447.7	1562.8	1680.1	1832.8	1894.8	1910.3
17.5°	456.0	573.3	876.6	965.1	1250.7	1587.1	1704.4	1801.8	1925.8	1967.8	1978.9
20°	398.4	537.9	898.7	1013.8	1343.6	1689.0	1801.8	1877.1	1961.2	1987.7	1992.2
22.5°	356.4	500.3	912.0	1031.5	1405.6	1750.9	1846.1	1905.8	1963.4	1972.3	1974.5
25°	321.0	458.2	909.8	1051.4	1458.7	1788.5	1861.6	1905.8	1939.1	1943.5	1943.5
27.5°	287.8	411.7	900.9	1055.9	1498.6	1797.3	1854.9	1885.9	1901.4	1910.3	1910.3
30°	259.0	367.5	878.7	1047.0	1516.3	1788.5	1835.0	1850.5	1866.0	1879.3	1885.9
32.5°	236.8	325.4	845.5	1029.3	1518.5	1766.4	1799.6	1808.4	1830.6	1861.6	1872.6
35°	217.0	283.3	807.9	1004.9	1505.2	1731.0	1753.1	1761.9	1806.2	1852.7	1868.2
37.5°	197.0	252.4	759.3	962.9	1485.2	1689.0	1704.4	1719.9	1788.5	1843.8	1861.6
40°	177.1	225.8	701.7	916.4	1454.3	1638.0	1651.3	1675.6	1766.4	1830.6	1848.3
42.5°	161.6	203.6	639.7	867.7	1414.4	1580.5	1600.4	1635.8	1739.8	1808.4	1828.4
45°	148.3	181.5	573.3	801.3	1363.5	1520.7	1549.4	1598.2	1708.8	1775.3	1793.0
47.5°	135.0	166.0	504.6	732.7	1308.2	1460.9	1498.6	1553.9	1666.8	1731.0	1746.5
50°	123.9	150.5	436.1	659.6	1248.4	1396.7	1441.0	1498.6	1613.7	1673.4	1693.3
52.5°	115.1	137.3	371.8	586.6	1179.8	1330.3	1381.2	1441.0	1549.4	1607.0	1620.3
55°	106.2	126.2	316.5	509.1	1109.0	1259.5	1314.9	1372.4	1478.6	1527.4	1536.2
57.5°	101.9	117.3	270.1	436.1	1033.7	1179.8	1241.8	1294.9	1394.6	1432.1	1441.0
60°	95.1	110.7	234.7	374.1	951.8	1104.5	1157.7	1210.8	1294.9	1325.9	1332.6
62.5°	88.5	106.2	208.1	314.3	867.7	1016.0	1069.1	1117.9	1188.7	1210.8	1219.6
65°	84.2	101.9	188.2	270.1	781.3	923.0	976.2	1018.2	1075.7	1097.9	1102.3
67.5°	79.7	97.4	172.7	232.4	695.0	830.1	869.9	909.8	954.0	976.2	978.4
70°	73.1	93.0	159.4	205.9	606.5	723.8	757.0	799.0	834.5	845.5	852.2
72.5°	68.6	86.3	150.5	185.9	515.7	622.0	653.0	677.3	708.4	719.4	719.4
75°	62.0	77.4	141.7	166.0	422.8	509.1	535.7	560.0	584.3	588.8	582.2
77.5°	55.4	68.6	121.7	139.4	329.8	402.9	425.0	438.3	458.2	462.6	464.9
80°	46.5	59.7	95.1	108.5	239.0	296.6	312.1	323.2	340.9	340.9	345.3
82.5°	35.4	46.5	68.6	77.4	161.6	203.6	217.0	223.6	234.7	234.7	234.7
85°	22.1	28.8	44.3	50.9	97.4	123.9	132.8	135.0	143.9	146.1	146.1
87.5°	11.1	15.5	28.8	31.0	50.9	64.2	64.2	68.6	68.6	66.4	64.2
90°	6.8	12.2	17.6	18.9	29.7	44.2	51.5	45.7	34.3	25.7	25.7
92.5°	27.1	73.2	119.2	130.7	183.7	254.5	289.9	254.0	182.4	128.7	123.6
95°	65.1	149.3	233.5	254.6	452.1	715.6	847.3	756.1	573.6	436.8	421.3
97.5°	112.4	186.7	261.1	279.7	609.0	1048.3	1267.9	1210.2	1094.9	1008.4	978.9
100°	149.0	216.4	283.8	300.7	666.1	1153.5	1397.2	1401.4	1409.8	1416.1	1381.0
102.5°	180.2	243.0	306.0	321.7	692.4	1186.6	1433.7	1507.1	1654.1	1764.2	1734.1
105°	233.0	286.3	339.5	352.8	711.8	1190.4	1429.7	1594.3	1923.6	2170.6	2154.4
107.5°	287.2	336.8	386.5	398.9	715.4	1137.4	1348.4	1578.1	2037.4	2381.9	2385.8
110°	323.7	368.5	413.3	424.6	709.9	1090.4	1280.7	1537.4	2050.9	2436.1	2452.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	359.6	402.4	445.1	455.8	710.2	1049.4	1219.0	1481.8	2007.3	2401.5	2427.4
115°	413.8	453.2	492.7	502.6	716.8	1002.4	1145.2	1398.4	1904.7	2284.4	2320.3
117.5°	467.3	503.2	538.9	547.9	730.1	972.9	1094.4	1322.9	1779.8	2122.5	2162.3
120°	498.5	532.2	565.9	574.3	740.9	963.0	1074.1	1282.8	1700.3	2013.4	2052.2
122.5°	529.0	563.0	597.0	605.5	756.5	957.8	1058.6	1246.6	1622.5	1904.4	1942.5
125°	575.6	606.7	637.6	645.4	777.5	953.6	1041.6	1201.3	1520.7	1760.2	1795.3
127.5°	613.6	644.9	676.2	684.0	798.5	951.1	1027.4	1164.5	1438.8	1644.4	1674.0
130°	633.9	667.6	701.3	709.7	813.8	952.5	1021.9	1144.0	1388.1	1571.2	1598.6
132.5°	654.9	688.6	722.3	730.8	826.3	953.6	1017.2	1126.5	1345.0	1508.9	1533.4
135°	686.0	716.7	747.4	755.1	839.8	952.7	1009.1	1100.6	1283.6	1420.9	1442.0
137.5°	717.9	748.3	778.7	786.3	860.1	958.5	1007.7	1085.1	1239.8	1355.8	1373.1
140°	744.3	772.3	800.3	807.2	872.5	959.5	1003.0	1069.8	1203.5	1303.7	1319.9
142.5°	764.6	790.5	816.4	822.9	882.9	963.0	1003.0	1061.7	1179.1	1267.2	1281.1
145°	795.7	818.3	840.9	846.6	896.5	963.0	996.2	1044.3	1140.3	1212.3	1222.9
147.5°	826.9	848.9	870.9	876.4	916.3	969.6	996.2	1034.0	1109.6	1166.3	1175.0
150°	847.3	867.2	886.9	891.9	926.7	973.0	996.2	1028.1	1092.0	1139.8	1146.9
152.5°	868.2	883.3	898.4	902.1	933.5	975.3	996.2	1023.4	1077.9	1118.8	1124.1
155°	899.4	910.6	921.7	924.4	948.3	980.3	996.2	1017.9	1061.3	1093.8	1097.4
157.5°	922.4	933.3	944.1	946.8	963.2	985.2	996.2	1013.0	1046.8	1072.1	1074.5
160°	938.0	946.4	954.9	957.0	970.1	987.5	996.2	1010.7	1039.6	1061.3	1062.7
162.5°	953.6	959.8	966.2	967.8	977.3	989.9	996.2	1008.4	1032.7	1051.1	1052.5
165°	970.5	976.2	982.0	983.4	987.7	993.3	996.2	1004.9	1022.5	1035.5	1036.9
167.5°	986.1	988.8	991.5	992.2	995.8	1000.6	1003.0	1008.8	1020.2	1028.7	1029.3
170°	996.2	998.9	1001.6	1002.3	1002.6	1002.8	1003.0	1008.8	1020.2	1028.7	1028.7
172.5°	1001.6	1002.2	1002.8	1003.0	1003.0	1003.0	1003.0	1007.5	1016.5	1023.3	1022.8
175°	1009.1	1009.1	1009.1	1009.1	1007.1	1004.4	1003.0	1005.9	1011.6	1015.9	1015.9
177.5°	1009.1	1009.1	1009.1	1009.1	1007.5	1005.4	1004.3	1006.6	1011.1	1014.5	1013.9
180°	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1	1009.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	688.4	688.4
2.5°	734.9	730.5
5°	945.2	949.6
7.5°	1272.8	1270.6
10°	1582.7	1602.6
12.5°	1808.4	1812.9
15°	1945.7	1954.6
17.5°	1998.8	2001.1
20°	2001.1	1996.6
22.5°	1976.6	1972.3
25°	1947.9	1945.7
27.5°	1921.4	1923.5
30°	1910.3	1916.9
32.5°	1910.3	1921.4
35°	1914.7	1925.8
37.5°	1912.5	1925.8
40°	1903.7	1919.1
42.5°	1879.3	1890.4
45°	1841.6	1854.9
47.5°	1793.0	1801.8
50°	1731.0	1739.8
52.5°	1653.5	1655.7
55°	1560.5	1569.4
57.5°	1460.9	1463.1
60°	1350.3	1356.9
62.5°	1233.0	1233.0
65°	1109.0	1113.4
67.5°	980.6	991.7
70°	850.0	852.2
72.5°	721.6	721.6
75°	588.8	591.0
77.5°	462.6	462.6
80°	343.1	345.3
82.5°	236.8	241.3
85°	148.3	148.3
87.5°	68.6	62.0
90°	25.7	25.7
92.5°	103.1	82.6
95°	359.3	297.3
97.5°	861.0	743.0
100°	1240.5	1099.9
102.5°	1613.7	1493.4
105°	2089.7	2025.0
107.5°	2401.4	2417.1
110°	2520.4	2587.8





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	2530.9	2634.5
115°	2463.8	2607.4
117.5°	2321.5	2480.8
120°	2206.9	2361.6
122.5°	2095.1	2247.8
125°	1935.9	2076.5
127.5°	1792.6	1911.2
130°	1708.2	1817.8
132.5°	1631.6	1729.7
135°	1526.6	1611.2
137.5°	1442.3	1511.6
140°	1384.6	1449.3
142.5°	1336.7	1392.5
145°	1265.0	1307.1
147.5°	1209.9	1244.8
150°	1175.2	1203.5
152.5°	1145.5	1166.9
155°	1111.5	1125.6
157.5°	1084.5	1094.4
160°	1068.4	1074.1
162.5°	1057.9	1063.3
165°	1042.7	1048.4
167.5°	1031.7	1034.1
170°	1028.7	1028.7
172.5°	1020.7	1018.6
175°	1015.9	1015.9
177.5°	1011.6	1009.1
180°	1009.1	1009.1



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**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	5.55	6.40	6.54	7.41	8.75	18.72	19.57	19.71	20.57	21.91
	3H	6.26	7.02	7.26	8.04	9.40	20.55	21.31	21.55	22.33	23.69
	4H	6.55	7.28	7.57	8.30	9.67	21.19	21.91	22.21	22.94	24.30
	6H	6.80	7.47	7.83	8.50	9.88	21.62	22.28	22.64	23.31	24.69
	8H	6.87	7.51	7.90	8.55	9.93	21.73	22.37	22.77	23.41	24.79
	12H	6.89	7.49	7.93	8.53	9.93	21.80	22.40	22.84	23.44	24.84
4H	2H	12.76	13.48	13.78	14.50	15.87	18.99	19.71	20.01	20.73	22.10
	3H	14.32	14.93	15.35	15.98	17.36	21.03	21.63	22.06	22.68	24.07
	4H	14.42	14.97	15.46	16.01	17.42	21.79	22.35	22.83	23.39	24.79
	6H	14.43	14.91	15.48	15.97	17.37	22.33	22.80	23.37	23.87	25.27
	8H	14.40	14.85	15.45	15.91	17.32	22.48	22.93	23.53	23.99	25.41
	12H	14.36	14.77	15.43	15.84	17.26	22.57	22.98	23.64	24.05	25.47
8H	4H	15.86	16.31	16.91	17.36	18.78	21.85	22.30	22.90	23.36	24.77
	6H	16.10	16.47	17.17	17.57	18.98	22.48	22.85	23.55	23.95	25.36
	8H	16.12	16.44	17.20	17.53	18.96	22.69	23.02	23.77	24.10	25.53
	12H	16.09	16.37	17.17	17.45	18.92	22.83	23.12	23.92	24.20	25.67
12H	4H	16.00	16.41	17.07	17.48	18.90	21.80	22.21	22.87	23.28	24.70
	6H	16.36	16.68	17.44	17.77	19.20	22.46	22.79	23.54	23.87	25.30
	8H	16.43	16.71	17.51	17.79	19.26	22.69	22.97	23.77	24.05	25.52