

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: P937941

Luminaire Tested: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

**Test Information**

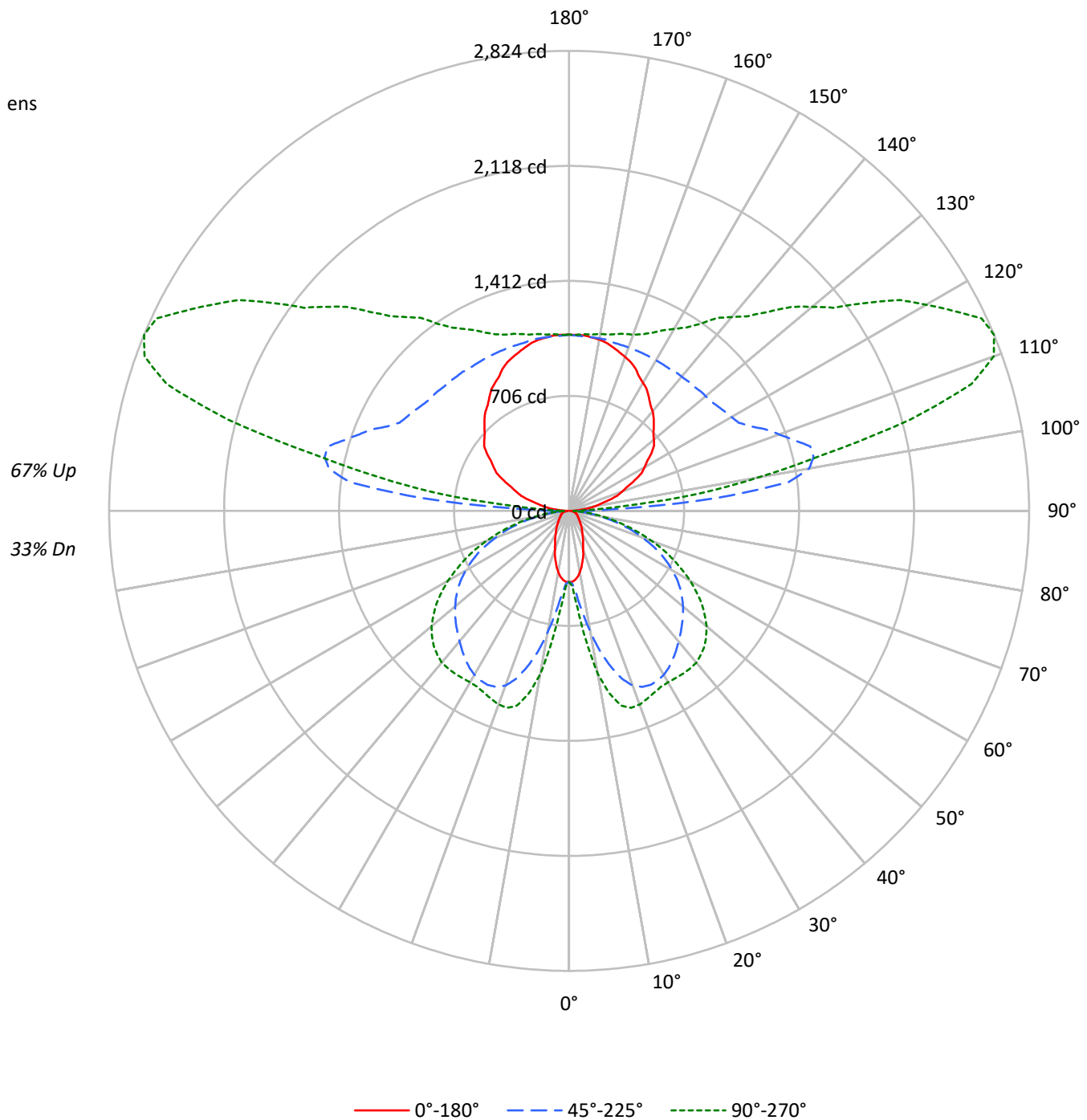
Test Method: LM-79-2019  
Report Number: P937941  
REPORT IS A COMBINATION OF REPORTS P933606 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-6-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10389.2 lumens  
Efficiency: N/A  
Efficacy: 124.6 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: Semi-Indirect  
  
Input Watts (W): 83.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P937941  
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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	50	30	10	0
RCR																					
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	40	40	40	33
1	94	89	85	82	84	80	77	74	64	62	60	49	47	46	35	34	33	33	33	33	27
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27	27	27	27	22
3	77	68	60	54	69	61	55	50	49	44	40	37	34	31	26	24	23	23	23	23	18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	19	19	19	15
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16	16	16	16	13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14	14	14	14	11
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12	12	12	12	10
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11	11	11	11	8
9	47	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10	10	10	10	7
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9	9	9	9	7

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

	0°	45°	90°
0°	2697	2697	2697
5°	2634	3117	3626
10°	2389	4542	6011
15°	2029	5933	7259
20°	1652	6874	7398
25°	1377	7192	7247
30°	1160	7235	7234
35°	1026	7113	7421
40°	894	6954	7614
45°	808	6838	7644
50°	741	6733	7517
55°	709	6580	7184
60°	725	6288	6658
65°	753	5846	5934
70°	801	5095	5014
75°	884	4150	3912
80°	957	2875	2636
85°	835	1522	1349

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7644 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	0.5
10°-20°	250.0	2.4
20°-30°	437.3	4.2
30°-40°	562.9	5.4
40°-50°	628.7	6.1
50°-60°	602.2	5.8
60°-70°	477.2	4.6
70°-80°	280.6	2.7
80°-90°	82.1	0.8
90°-100°	527.2	5.1
100°-110°	1386.1	13.3
110°-120°	1437.3	13.8
120°-130°	1152.9	11.1
130°-140°	904.6	8.7
140°-150°	694.3	6.7
150°-160°	500.0	4.8
160°-170°	305.9	2.9
170°-180°	103.4	1.0
0°-30°	743.7	7.2
0°-40°	1306.6	12.6
0°-60°	2537.5	24.4
0°-90°	3377.4	32.5
90°-120°	3350.6	32.3
90°-150°	6102.4	58.7
90°-180°	7012.0	67.5
0°-180°	10389.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	425	456	513	580	602	39
15°	318	588	990	1200	1238	89
25°	203	666	1179	1231	1232	94
35°	137	636	1110	1174	1220	86
45°	94	508	981	1124	1175	73
55°	67	322	833	967	994	61
65°	53	171	618	695	705	53
75°	39	105	339	373	374	41
85°	14	32	84	92	94	15
90°	7	20	55	28	28	7
95°	70	273	908	468	319	77
105°	250	378	1532	2327	2170	265
115°	444	539	1228	2449	2795	438
125°	617	692	1116	1887	2226	548
135°	735	809	1082	1523	1727	569
145°	853	907	1068	1299	1401	534
155°	964	991	1068	1172	1206	443
165°	1040	1054	1068	1110	1124	294
175°	1082	1082	1075	1089	1089	103
180°	1082	1082	1082	1082	1082	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0
2.5°	436.0	436.0	438.8	440.2	443.1	444.5	447.3	450.1	458.5	459.9	462.7
5°	424.8	430.4	448.7	455.7	475.3	501.9	513.2	531.4	569.2	580.5	587.5
7.5°	408.0	420.6	465.5	476.7	525.8	595.9	625.3	664.6	724.9	754.3	778.1
10°	381.4	408.0	487.9	514.6	594.5	701.0	755.7	810.4	901.5	942.2	957.6
12.5°	351.9	395.4	511.8	548.2	663.2	818.8	884.7	945.0	1048.7	1103.5	1111.9
15°	318.3	377.2	534.2	587.5	736.1	916.9	989.9	1064.3	1161.0	1200.3	1210.1
17.5°	288.8	363.1	555.2	611.3	792.2	1005.3	1079.7	1141.4	1219.9	1246.5	1253.5
20°	252.4	340.7	569.2	642.1	851.0	1069.9	1141.4	1189.0	1242.3	1259.1	1261.9
22.5°	225.7	316.9	577.6	653.4	890.3	1109.1	1169.4	1207.3	1243.7	1249.3	1250.7
25°	203.3	290.2	576.2	666.0	924.0	1133.0	1179.2	1207.3	1228.3	1231.1	1231.1
27.5°	182.3	260.8	570.6	668.8	949.2	1138.6	1175.0	1194.6	1204.5	1210.1	1210.1
30°	164.0	232.7	556.6	663.2	960.4	1133.0	1162.4	1172.2	1182.0	1190.4	1194.6
32.5°	150.0	206.1	535.6	652.0	961.8	1118.9	1140.0	1145.6	1159.6	1179.2	1186.2
35°	137.4	179.5	511.8	636.5	953.4	1096.5	1110.5	1116.1	1144.2	1173.6	1183.4
37.5°	124.8	159.8	480.9	609.9	940.8	1069.9	1079.7	1089.5	1133.0	1168.0	1179.2
40°	112.2	143.0	444.5	580.5	921.2	1037.5	1045.9	1061.4	1118.9	1159.6	1170.8
42.5°	102.4	129.0	405.2	549.6	895.9	1001.1	1013.7	1036.1	1102.1	1145.6	1158.2
45°	93.9	115.0	363.1	507.5	863.7	963.2	981.4	1012.3	1082.5	1124.5	1135.8
47.5°	85.5	105.2	319.7	464.1	828.6	925.4	949.2	984.2	1055.8	1096.5	1106.3
50°	78.5	95.3	276.2	417.8	790.8	884.7	912.7	949.2	1022.1	1060.0	1072.7
52.5°	72.9	86.9	235.5	371.5	747.3	842.6	874.9	912.7	981.4	1017.9	1026.3
55°	67.3	79.9	200.5	322.5	702.4	797.8	832.8	869.3	936.6	967.4	973.0
57.5°	64.5	74.3	171.1	276.2	654.8	747.3	786.6	820.2	883.3	907.1	912.7
60°	60.3	70.1	148.6	236.9	602.9	699.6	733.3	766.9	820.2	839.8	844.0
62.5°	56.1	67.3	131.8	199.1	549.6	643.5	677.2	708.0	752.9	766.9	772.5
65°	53.3	64.5	119.2	171.1	494.9	584.7	618.3	644.9	681.4	695.4	698.2
67.5°	50.5	61.7	109.4	147.2	440.2	525.8	551.0	576.2	604.3	618.3	619.7
70°	46.3	58.9	100.9	130.4	384.2	458.5	479.5	506.1	528.6	535.6	539.8
72.5°	43.5	54.7	95.3	117.8	326.7	394.0	413.6	429.0	448.7	455.7	455.7
75°	39.3	49.1	89.7	105.2	267.8	322.5	339.3	354.7	370.1	372.9	368.7
77.5°	35.1	43.5	77.1	88.3	208.9	255.2	269.2	277.6	290.2	293.0	294.4
80°	29.4	37.9	60.3	68.7	151.4	187.9	197.7	204.7	215.9	215.9	218.7
82.5°	22.4	29.4	43.5	49.1	102.4	129.0	137.4	141.6	148.6	148.6	148.6
85°	14.0	18.2	28.0	32.2	61.7	78.5	84.1	85.5	91.1	92.5	92.5
87.5°	7.0	9.8	18.2	19.6	32.2	40.7	40.7	43.5	43.5	42.1	40.7
90°	7.3	13.1	18.9	20.3	31.9	47.4	55.1	49.0	36.7	27.6	27.6
92.5°	29.1	78.4	127.8	140.1	196.9	272.7	310.7	272.3	195.5	138.0	132.4
95°	69.7	160.0	250.3	272.9	484.6	767.0	908.2	810.4	614.8	468.2	451.6
97.5°	120.5	200.1	279.9	299.8	652.8	1123.6	1359.0	1297.2	1173.6	1080.9	1049.3
100°	159.7	232.0	304.2	322.3	714.0	1236.4	1497.6	1502.1	1511.1	1517.9	1480.2
102.5°	193.1	260.5	328.0	344.8	742.2	1271.9	1536.8	1615.5	1773.0	1891.0	1858.8
105°	249.8	306.9	363.9	378.2	762.9	1276.0	1532.5	1708.9	2061.9	2326.6	2309.2
107.5°	307.8	361.0	414.3	427.5	766.8	1219.1	1445.3	1691.5	2183.8	2553.1	2557.3
110°	347.0	395.0	443.1	455.1	760.9	1168.8	1372.7	1647.9	2198.3	2611.2	2629.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	385.5	431.3	477.1	488.6	761.2	1124.8	1306.6	1588.3	2151.6	2574.1	2601.8
115°	443.5	485.8	528.1	538.7	768.3	1074.4	1227.5	1498.9	2041.6	2448.6	2487.1
117.5°	500.9	539.3	577.6	587.3	782.5	1042.9	1173.1	1417.9	1907.7	2275.1	2317.7
120°	534.3	570.5	606.5	615.6	794.1	1032.2	1151.3	1375.0	1822.5	2158.1	2199.6
122.5°	567.0	603.4	639.9	649.0	810.9	1026.7	1134.6	1336.2	1739.1	2041.3	2082.2
125°	617.0	650.3	683.5	691.8	833.4	1022.1	1116.5	1287.7	1629.9	1886.7	1924.4
127.5°	657.7	691.2	724.8	733.2	855.9	1019.5	1101.3	1248.2	1542.2	1762.6	1794.4
130°	679.4	715.6	751.7	760.8	872.3	1021.0	1095.4	1226.2	1487.9	1684.2	1713.5
132.5°	702.0	738.1	774.2	783.3	885.6	1022.1	1090.3	1207.5	1441.7	1617.3	1643.6
135°	735.3	768.2	801.1	809.4	900.1	1021.2	1081.6	1179.7	1375.9	1523.0	1545.6
137.5°	769.4	802.1	834.7	842.8	921.9	1027.4	1080.1	1163.1	1328.9	1453.3	1471.8
140°	797.8	827.8	857.8	865.3	935.2	1028.5	1075.1	1146.7	1290.0	1397.4	1414.8
142.5°	819.6	847.3	875.1	882.0	946.4	1032.2	1075.1	1138.0	1263.8	1358.2	1373.2
145°	852.9	877.1	901.3	907.4	960.9	1032.2	1067.8	1119.3	1222.2	1299.4	1310.7
147.5°	886.4	909.9	933.5	939.4	982.2	1039.3	1067.8	1108.3	1189.3	1250.1	1259.4
150°	908.2	929.5	950.7	956.0	993.3	1042.9	1067.8	1102.0	1170.4	1221.8	1229.3
152.5°	930.6	946.8	962.9	967.0	1000.6	1045.4	1067.8	1097.0	1155.4	1199.2	1204.9
155°	964.1	976.0	987.9	990.9	1016.5	1050.7	1067.8	1091.1	1137.5	1172.4	1176.2
157.5°	988.7	1000.3	1011.9	1014.8	1032.5	1056.0	1067.8	1085.8	1122.0	1149.1	1151.7
160°	1005.4	1014.4	1023.5	1025.7	1039.8	1058.5	1067.8	1083.3	1114.3	1137.5	1139.0
162.5°	1022.1	1028.8	1035.7	1037.3	1047.5	1061.1	1067.8	1080.9	1107.0	1126.6	1128.1
165°	1040.2	1046.4	1052.6	1054.1	1058.6	1064.7	1067.8	1077.2	1095.9	1110.0	1111.5
167.5°	1057.0	1059.9	1062.8	1063.5	1067.3	1072.5	1075.1	1081.3	1093.5	1102.7	1103.3
170°	1067.8	1070.7	1073.6	1074.4	1074.6	1074.9	1075.1	1081.3	1093.5	1102.7	1102.7
172.5°	1073.6	1074.3	1074.9	1075.1	1075.1	1075.1	1075.1	1080.0	1089.6	1096.9	1096.3
175°	1081.6	1081.6	1081.6	1081.6	1079.5	1076.6	1075.1	1078.2	1084.4	1088.9	1088.9
177.5°	1081.6	1081.6	1081.6	1081.6	1080.0	1077.6	1076.5	1078.9	1083.8	1087.4	1086.8
180°	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	436.0	436.0
2.5°	465.5	462.7
5°	598.7	601.5
7.5°	806.2	804.8
10°	1002.5	1015.1
12.5°	1145.6	1148.4
15°	1232.5	1238.1
17.5°	1266.2	1267.6
20°	1267.6	1264.8
22.5°	1252.1	1249.3
25°	1233.9	1232.5
27.5°	1217.1	1218.5
30°	1210.1	1214.3
32.5°	1210.1	1217.1
35°	1212.9	1219.9
37.5°	1211.5	1219.9
40°	1205.9	1215.7
42.5°	1190.4	1197.5
45°	1166.6	1175.0
47.5°	1135.8	1141.4
50°	1096.5	1102.1
52.5°	1047.3	1048.7
55°	988.5	994.1
57.5°	925.4	926.8
60°	855.3	859.5
62.5°	780.9	780.9
65°	702.4	705.2
67.5°	621.1	628.1
70°	538.4	539.8
72.5°	457.1	457.1
75°	372.9	374.3
77.5°	293.0	293.0
80°	217.3	218.7
82.5°	150.0	152.8
85°	93.9	93.9
87.5°	43.5	39.3
90°	27.6	27.6
92.5°	110.5	88.5
95°	385.1	318.6
97.5°	922.8	796.4
100°	1329.6	1178.9
102.5°	1729.7	1600.7
105°	2239.8	2170.5
107.5°	2574.0	2590.8
110°	2701.5	2773.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	2712.8	2823.8
115°	2640.9	2794.8
117.5°	2488.4	2659.1
120°	2365.5	2531.3
122.5°	2245.7	2409.3
125°	2075.0	2225.7
127.5°	1921.5	2048.6
130°	1831.0	1948.4
132.5°	1748.8	1854.0
135°	1636.3	1727.0
137.5°	1546.0	1620.2
140°	1484.1	1553.5
142.5°	1432.8	1492.5
145°	1355.9	1401.0
147.5°	1296.9	1334.3
150°	1259.7	1290.0
152.5°	1227.8	1250.7
155°	1191.4	1206.5
157.5°	1162.4	1173.1
160°	1145.2	1151.3
162.5°	1133.9	1139.7
165°	1117.6	1123.7
167.5°	1105.9	1108.5
170°	1102.7	1102.7
172.5°	1094.1	1091.8
175°	1088.9	1088.9
177.5°	1084.3	1081.6
180°	1081.6	1081.6



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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	2.59	3.33	3.68	4.42	5.92	15.75	16.50	16.84	17.59	19.09
	3H	3.28	3.95	4.38	5.05	6.57	17.58	18.25	18.67	19.34	20.86
	4H	3.58	4.21	4.68	5.31	6.83	18.21	18.85	19.32	19.95	21.47
	6H	3.82	4.41	4.94	5.51	7.04	18.63	19.22	19.75	20.32	21.85
	8H	3.89	4.44	5.01	5.56	7.09	18.75	19.30	19.87	20.42	21.95
	12H	3.90	4.43	5.02	5.54	7.09	18.81	19.34	19.93	20.45	22.00
4H	2H	9.78	10.41	10.89	11.51	13.04	16.01	16.65	17.13	17.75	19.27
	3H	11.34	11.87	12.46	12.99	14.53	18.04	18.57	19.16	19.70	21.23
	4H	11.43	11.91	12.55	13.03	14.59	18.80	19.29	19.92	20.40	21.96
	6H	11.43	11.85	12.56	12.99	14.53	19.33	19.75	20.46	20.89	22.43
	8H	11.40	11.80	12.54	12.93	14.49	19.48	19.88	20.62	21.01	22.57
	12H	11.35	11.71	12.50	12.85	14.42	19.57	19.92	20.72	21.07	22.63
8H	4H	12.86	13.25	13.99	14.38	15.94	18.85	19.24	19.98	20.37	21.94
	6H	13.09	13.42	14.25	14.59	16.15	19.47	19.79	20.62	20.97	22.53
	8H	13.11	13.39	14.27	14.55	16.13	19.68	19.97	20.84	21.12	22.70
	12H	13.07	13.32	14.24	14.47	16.09	19.82	20.07	20.98	21.22	22.83
12H	4H	12.99	13.35	14.14	14.49	16.06	18.80	19.15	19.95	20.30	21.86
	6H	13.35	13.63	14.51	14.79	16.37	19.45	19.73	20.61	20.89	22.47
	8H	13.41	13.66	14.58	14.81	16.43	19.67	19.92	20.84	21.07	22.69