

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SWLSEL2HT25W4K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] RKS231113001-10
[ISSUE DATE] 2023/11/15 14:14
[MANUFAC] BEGHELLI
[LUMCAT] STAIRWELL PASSAGEWAY LUMINAIRE
[LUMINAIRE] SWLSEL2HT25W4K
[LAMP] S01
[_VOLTAGE] 120.0 V
[_CURRENT] 0.204 A
[_POWERFACTOR] 0.999
[TESTLAB] BEGHELLI
[_TESTINST] GPM-1900
[_TESTDIST] 14.210 m
[_TESTTEMPERATURE] 24.6 'C
[_TESTHUMIDITY] 49
[BALLAST]
[BALLASTCAT]

CHARACTERISTICS

Lumens Per Lamp	3461.8 (1 lamp)
Total Lamp Lumens	3461.8
Luminaire Lumens	3462
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	24.48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.58 m
Luminous Width (90-270)	0.12 m
Luminous Height	0.06 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13760	9858	8411
55	13695	8653	6748
65	14097	7437	4936
75	15677	6341	2782
85	22228	5479	544

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL2HT25W4K.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1
1	1038.9	1040.0	1038.5	1038.0	1038.5	1038.7	1039.2	1039.0	1039.2	1039.5
2	1038.7	1039.3	1037.9	1037.0	1037.8	1037.5	1038.1	1038.5	1038.5	1038.8
3	1038.8	1039.1	1037.1	1036.8	1036.1	1035.9	1037.3	1037.2	1037.7	1038.5
4	1036.9	1037.6	1035.6	1034.4	1034.1	1034.3	1035.9	1036.0	1036.2	1036.0
5	1036.4	1035.9	1034.2	1032.5	1031.6	1032.0	1033.3	1034.4	1035.0	1034.6
6	1034.3	1033.8	1030.9	1029.9	1028.7	1028.9	1031.0	1032.4	1032.8	1033.1
7	1031.7	1031.2	1028.2	1027.0	1024.4	1025.7	1028.3	1030.4	1030.7	1031.0
8	1029.6	1028.6	1024.7	1022.8	1020.7	1021.9	1025.2	1027.1	1028.3	1028.1
9	1026.8	1025.3	1022.0	1020.0	1016.0	1017.6	1021.4	1024.1	1026.2	1024.7
10	1024.0	1022.8	1018.5	1015.1	1011.4	1013.1	1017.0	1020.5	1023.1	1022.2
11	1020.7	1019.3	1013.7	1009.2	1006.5	1008.3	1012.5	1016.5	1019.6	1017.6
12	1017.3	1014.6	1009.3	1004.1	999.7	1002.0	1008.0	1013.1	1015.2	1014.4
13	1013.1	1010.5	1004.2	998.6	993.5	995.9	1002.7	1008.4	1012.2	1009.6
14	1008.8	1006.5	998.6	993.3	986.5	989.6	996.8	1003.0	1007.1	1005.1
15	1004.1	1001.8	993.1	985.3	978.9	982.3	990.9	998.3	1001.7	999.7
16	999.2	996.2	986.0	978.6	971.4	974.9	984.8	992.7	997.5	993.4
17	994.1	990.4	980.1	970.6	963.2	967.4	978.1	987.1	991.5	988.0
18	988.3	983.7	973.3	963.2	954.5	959.2	970.5	980.7	987.3	982.5
19	981.8	977.5	965.7	954.3	945.0	950.3	962.8	974.6	980.5	976.6
20	976.4	971.9	958.0	946.0	935.8	941.4	955.2	967.8	973.7	968.9
21	969.6	963.4	949.5	936.7	926.1	932.5	947.0	960.9	967.7	962.2
22	962.7	956.6	940.5	927.0	916.1	922.8	938.9	952.8	961.3	954.7
23	956.5	948.7	932.2	917.5	905.8	913.0	929.3	945.4	954.6	947.1
24	948.6	941.6	921.8	905.6	893.7	901.8	920.4	937.7	946.9	938.3
25	941.2	932.3	913.9	895.5	882.5	891.3	911.2	930.0	938.2	930.1
26	933.1	924.4	903.8	884.8	871.5	880.5	901.6	920.7	931.5	921.9
27	925.9	915.6	893.4	873.9	859.3	869.1	890.2	912.1	923.5	913.7
28	916.4	906.6	883.3	861.1	845.7	856.6	880.3	903.0	914.5	904.3
29	909.2	898.1	873.2	848.9	835.0	843.9	869.8	893.9	906.6	894.8
30	899.7	887.4	862.4	836.9	822.7	833.6	858.9	885.0	897.2	885.4
31	889.7	877.3	850.6	827.4	809.4	822.2	846.5	874.3	887.7	875.7
32	880.1	868.1	839.1	812.8	794.6	808.0	836.3	864.4	878.9	866.1
33	870.1	856.5	829.5	800.1	781.3	795.3	826.7	854.5	867.2	854.5
34	860.8	846.0	817.1	787.1	768.0	782.5	814.4	844.0	859.9	844.8
35	852.9	838.5	805.0	773.7	754.3	769.4	802.6	834.9	851.6	836.6
36	843.3	827.0	792.5	760.1	740.4	754.9	789.2	823.6	841.4	825.4
37	831.8	815.3	779.8	746.2	724.9	741.5	777.1	812.9	829.5	813.2
38	820.0	802.9	767.4	732.0	710.3	727.9	764.7	801.6	819.5	801.8
39	809.7	791.0	756.1	718.2	695.9	714.3	752.3	790.4	808.7	791.4
40	798.4	779.9	742.5	704.0	681.5	700.0	738.6	778.3	798.0	779.3
41	787.6	768.3	729.1	689.5	666.7	684.4	725.8	766.8	787.1	768.0
42	776.8	756.3	715.9	676.4	650.4	670.1	713.0	755.1	774.9	755.5
43	765.2	744.4	703.1	659.8	635.5	656.0	698.7	743.5	763.8	743.4
44	752.8	732.3	688.8	645.4	620.5	640.1	685.8	730.7	753.3	731.8
45	741.7	719.9	675.2	630.3	603.9	625.4	672.8	718.7	740.2	718.9
46	729.6	707.4	662.4	615.7	588.6	611.1	659.7	706.6	729.2	707.6
47	718.1	696.0	648.5	600.6	573.3	596.3	646.3	694.3	717.4	694.8
48	706.0	682.7	635.6	585.3	557.5	581.4	631.9	680.6	705.3	682.4
49	694.9	670.0	621.7	570.7	542.4	565.4	618.4	668.6	693.8	670.4
50	681.7	656.6	607.0	556.7	525.5	551.0	605.2	656.3	681.4	657.3
51	670.5	643.7	592.4	541.1	510.0	536.2	590.9	643.2	669.7	644.8
52	658.1	631.1	579.4	526.7	494.4	521.3	577.8	630.7	658.2	632.2
53	645.9	618.7	565.7	509.1	478.8	505.0	564.0	618.1	645.5	620.0

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54	634.0	606.1	552.0	494.4	461.6	490.2	550.8	605.7	632.3	606.0
55	621.0	593.3	538.6	479.7	445.9	475.3	537.5	591.7	620.5	593.2
56	608.8	579.8	523.9	463.5	430.6	460.5	522.7	579.0	608.1	580.9
57	595.9	568.0	510.4	448.1	414.8	444.7	509.5	566.9	596.8	568.6
58	584.4	554.1	496.9	435.1	398.1	430.1	496.0	554.5	584.2	555.1
59	571.7	541.5	483.4	419.6	382.1	415.6	483.2	542.2	571.0	543.0
60	559.5	529.4	468.3	404.2	366.8	401.1	468.6	528.6	559.3	531.0
61	547.6	516.5	455.8	388.9	351.3	385.0	455.7	516.0	547.2	516.9
62	534.4	504.1	442.3	374.7	334.4	370.8	442.7	504.0	533.5	504.6
63	522.3	490.9	427.9	359.4	319.0	356.5	429.9	490.3	521.4	492.7
64	510.6	478.5	415.3	343.7	303.3	342.2	415.8	478.2	509.7	480.3
65	499.2	466.2	402.4	330.4	288.0	328.2	403.2	466.1	497.9	468.4
66	487.0	454.8	389.7	314.9	273.0	312.9	390.5	454.4	486.3	455.1
67	474.0	441.4	376.1	301.0	256.2	299.0	378.0	441.1	473.3	443.3
68	462.4	429.5	363.7	286.3	241.3	285.5	364.8	429.5	462.1	432.0
69	449.9	417.4	351.3	272.8	226.2	270.7	352.5	418.3	450.3	420.3
70	439.3	406.0	339.7	259.6	209.9	257.6	340.7	406.9	438.1	407.7
71	427.3	394.6	327.5	245.7	195.0	244.4	328.7	394.4	426.7	396.5
72	415.9	383.3	315.7	232.4	180.5	231.4	315.7	383.2	415.7	385.3
73	405.2	371.9	303.1	219.2	165.8	217.3	304.3	372.2	403.5	373.2
74	393.5	360.9	292.1	206.9	150.0	205.1	293.2	361.4	392.5	361.9
75	382.5	349.4	281.1	194.3	135.9	192.7	282.1	349.7	381.9	351.5
76	371.8	338.9	269.6	181.4	122.4	181.0	270.3	339.5	371.3	341.0
77	361.3	328.8	259.0	169.7	108.8	168.6	259.9	329.1	360.9	331.0
78	350.6	318.5	248.1	159.3	95.7	158.1	249.7	318.8	350.6	319.7
79	339.7	307.3	238.4	147.6	82.0	147.3	239.5	308.0	339.2	309.9
80	329.4	297.8	228.1	137.4	70.0	137.4	228.9	298.4	329.2	300.0
81	319.6	288.1	218.2	126.6	58.9	126.4	219.7	288.7	319.3	290.6
82	308.8	277.8	209.3	117.6	48.0	117.5	210.6	279.5	309.0	280.2
83	299.2	268.9	200.2	108.1	37.1	108.8	201.6	269.9	299.4	271.0
84	290.0	259.5	191.4	99.7	28.5	100.0	193.1	261.1	290.1	262.1
85	281.1	250.6	181.9	91.2	20.6	92.3	183.7	251.5	281.0	253.0
86	270.9	241.2	174.1	83.3	13.8	84.0	175.7	243.1	272.2	243.7
87	262.4	233.1	166.1	76.5	7.3	77.5	168.3	234.6	262.2	235.2
88	253.7	224.9	158.4	70.2	3.2	71.0	160.6	225.9	254.2	227.4
89	245.3	217.6	150.7	63.4	0.0	65.1	152.6	218.1	245.6	219.3
90	236.8	209.2	144.2	58.4	0.0	59.0	145.4	210.5	237.4	210.6
91	228.9	201.7	137.3	53.0	0.0	53.6	138.6	202.7	228.5	203.0
92	220.2	193.7	130.5	48.4	0.0	49.1	132.3	194.4	220.7	195.9
93	212.8	186.3	124.5	43.7	0.0	44.7	125.5	186.8	213.1	188.8
94	205.0	179.6	118.5	39.9	0.0	41.0	119.7	179.8	205.8	181.6
95	197.3	172.1	113.0	36.7	0.0	37.2	114.0	173.3	198.4	173.9
96	190.2	165.9	107.5	33.5	0.0	34.2	108.3	165.8	190.7	167.9
97	183.3	158.8	101.9	30.7	0.0	31.7	103.0	159.5	183.4	161.0
98	176.5	152.6	96.3	28.2	0.0	28.6	97.7	153.6	177.1	155.1
99	169.8	146.5	91.9	25.9	0.0	26.7	93.2	147.3	169.8	148.1
100	162.9	139.9	87.5	23.8	0.0	24.4	88.8	141.4	163.5	142.6
101	156.8	134.9	83.4	22.3	0.0	23.1	84.3	135.4	157.4	136.6
102	150.5	129.1	79.4	20.4	0.0	21.2	79.5	129.9	151.3	131.1
103	144.9	123.8	74.9	18.5	0.0	19.4	76.1	124.7	145.7	125.5
104	138.5	118.3	71.4	17.5	0.0	17.9	72.2	119.8	139.6	120.5
105	133.3	113.3	67.6	16.4	0.0	16.6	68.6	114.6	133.7	115.6
106	128.0	108.4	64.2	14.9	0.0	15.6	64.9	109.6	129.2	110.7
107	122.7	104.1	61.2	13.8	0.0	14.3	61.8	105.0	123.8	105.1
108	117.9	99.7	57.9	13.3	0.0	13.5	58.7	100.7	119.1	101.2
109	113.1	95.5	54.9	12.3	0.0	12.4	55.9	95.7	113.8	96.5

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110	108.1	91.0	52.4	11.6	0.0	11.4	53.1	91.6	108.8	92.8
111	103.9	87.3	49.7	10.8	0.0	10.7	50.0	87.6	104.4	88.5
112	99.3	83.7	47.1	10.2	0.0	9.8	47.9	84.3	99.8	84.4
113	95.0	79.7	44.8	9.1	0.0	8.8	44.9	80.4	95.2	80.6
114	91.0	76.5	42.6	9.2	0.0	7.9	42.9	76.7	91.3	77.1
115	86.9	72.9	40.3	8.2	0.0	8.0	40.6	73.1	87.3	73.8
116	83.0	69.7	38.6	8.2	0.0	7.5	38.7	69.8	83.7	70.0
117	79.8	66.6	36.7	8.2	0.0	7.1	37.1	66.7	80.1	67.2
118	75.9	63.6	35.4	7.2	0.0	6.7	35.5	63.7	76.2	64.2
119	72.6	61.0	33.2	6.7	0.0	6.5	33.9	60.6	73.0	61.1
120	69.5	58.3	31.4	7.1	0.0	6.0	32.2	58.2	69.8	58.3
121	66.4	55.4	30.1	6.2	0.0	5.0	29.9	55.2	67.0	55.5
122	63.6	52.6	28.5	5.7	0.0	5.4	28.3	52.5	63.6	53.1
123	60.6	50.7	27.2	6.3	0.0	4.6	27.2	50.4	60.3	50.6
124	58.1	48.0	25.9	5.7	0.0	4.3	25.9	47.8	58.1	48.2
125	55.4	46.1	25.2	5.6	0.0	4.6	24.3	45.5	55.0	45.9
126	52.8	43.7	24.0	5.3	0.0	4.6	23.0	43.5	53.0	43.5
127	49.6	41.2	22.6	5.4	0.0	4.3	21.6	41.2	50.5	41.8
128	47.8	40.1	21.6	3.8	0.0	4.4	20.5	39.2	47.4	40.0
129	45.5	38.1	20.3	5.2	0.0	4.5	19.6	37.6	45.3	37.9
130	42.9	36.2	19.3	4.7	0.0	4.0	18.1	35.8	43.3	36.0
131	41.1	34.3	18.4	4.6	0.0	4.0	17.2	34.0	41.1	34.5
132	39.4	32.7	17.5	4.4	0.0	4.2	16.0	32.2	39.0	32.9
133	37.3	31.3	16.7	4.4	0.0	4.0	15.8	30.5	37.4	31.1
134	35.5	30.0	16.2	4.1	0.0	3.9	14.7	28.6	35.4	29.6
135	33.8	28.5	15.2	4.1	0.0	3.3	14.1	27.4	33.6	28.3
136	32.4	27.3	14.6	4.1	0.0	3.3	13.7	25.8	31.8	26.9
137	30.3	25.7	13.7	4.1	0.0	3.5	12.7	24.3	29.9	25.3
138	29.1	24.1	13.6	4.3	0.0	3.5	12.1	22.8	28.4	24.0
139	27.6	23.2	12.8	4.1	0.0	3.4	11.8	21.8	26.9	22.4
140	26.1	21.7	12.2	4.1	0.0	3.8	11.0	20.7	25.5	21.2
141	24.9	20.8	11.4	4.0	0.0	3.6	10.7	19.0	23.9	20.1
142	23.4	19.4	10.9	4.2	0.7	3.9	10.4	18.6	22.4	19.0
143	22.0	18.6	10.3	4.1	0.7	3.5	9.9	17.5	21.4	18.2
144	21.2	17.4	9.9	4.6	1.1	3.4	9.5	16.8	19.9	17.3
145	20.0	16.9	9.8	4.2	0.9	3.9	9.2	15.7	19.0	16.3
146	19.1	15.7	9.2	4.0	1.2	3.5	8.6	15.0	17.6	15.7
147	17.8	14.8	8.8	4.6	1.1	3.4	8.8	14.3	16.9	14.9
148	16.9	14.3	8.6	4.0	1.1	3.9	7.9	13.2	16.0	14.1
149	16.1	13.1	7.7	4.1	0.9	3.7	8.1	12.7	15.5	13.3
150	15.2	12.6	7.6	4.5	1.6	4.0	7.3	12.3	14.3	13.0
151	14.7	12.0	6.7	4.9	2.0	3.9	7.4	11.5	13.7	12.2
152	13.7	11.1	7.2	4.5	1.7	3.9	7.0	11.4	12.8	11.4
153	12.7	10.6	7.2	4.7	2.2	3.9	7.2	10.6	12.5	11.1
154	12.4	9.6	6.7	4.8	1.9	4.5	7.0	9.8	11.6	10.0
155	11.7	9.7	6.0	4.0	1.7	4.1	6.6	9.9	11.0	10.2
156	10.8	9.0	6.2	4.5	2.1	4.2	6.7	9.2	10.5	10.1
157	10.3	8.6	6.1	4.7	2.4	3.6	5.8	8.7	10.1	9.6
158	9.7	8.4	5.2	5.0	2.1	4.1	6.7	8.6	9.4	9.5
159	9.5	7.6	5.5	4.3	2.4	3.8	6.2	8.2	9.5	8.7
160	8.8	7.1	5.5	4.5	2.4	3.9	6.3	8.0	8.9	8.4
161	8.1	7.4	5.2	4.4	2.2	4.0	6.1	7.6	8.4	8.0
162	7.6	6.7	5.4	4.4	2.7	4.1	6.1	7.1	7.4	7.8
163	7.8	6.5	5.6	4.9	2.5	3.8	5.8	7.2	7.5	7.8
164	7.2	6.3	5.1	4.9	2.6	3.9	5.7	6.9	7.3	7.3
165	7.1	6.1	4.7	4.8	2.9	3.6	6.0	7.0	7.3	7.2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL2HT25W4K.IES

CANDELA TABULATION - (Cont.)

166	6.9	6.2	5.1	4.9	3.0	4.0	5.5	6.9	6.8	6.8
167	6.2	5.6	4.7	4.8	3.3	4.3	5.4	6.7	7.3	7.0
168	6.2	5.9	4.9	5.2	3.1	4.4	5.5	6.6	6.9	7.1
169	5.5	5.6	5.3	4.6	3.4	4.4	5.5	7.0	7.1	7.0
170	6.1	5.5	5.1	4.6	3.3	4.7	5.2	6.4	7.1	6.6
171	5.9	5.3	4.8	4.7	3.2	4.3	5.0	6.2	6.8	6.8
172	5.7	4.8	5.0	4.6	3.5	4.7	4.1	5.9	6.3	6.8
173	5.5	4.8	5.0	5.1	3.7	3.5	4.8	5.6	6.5	6.2
174	5.8	4.8	5.1	5.1	3.7	3.9	4.9	5.9	6.3	5.8
175	5.8	5.1	5.2	4.7	3.9	4.0	4.5	5.8	6.1	5.7
176	5.5	5.0	4.5	5.1	3.8	4.4	4.3	4.9	6.0	5.9
177	5.1	5.4	5.3	4.9	4.0	4.0	4.6	4.9	6.2	6.1
178	4.4	5.4	5.4	5.3	3.5	4.2	4.5	4.6	5.9	5.5
179	4.6	4.5	4.7	4.7	3.9	4.6	3.9	4.2	4.9	4.4
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1
1	1038.9	1038.2	1039.4	1038.9	1039.5	1039.1	1038.9
2	1037.1	1037.6	1038.6	1038.4	1039.0	1038.8	1038.7
3	1036.7	1036.5	1037.6	1037.3	1037.8	1038.3	1038.8
4	1035.2	1034.9	1036.2	1035.8	1036.5	1037.0	1036.9
5	1032.4	1032.6	1034.2	1034.1	1035.4	1035.6	1036.4
6	1030.4	1029.3	1031.7	1031.7	1032.9	1033.8	1034.3
7	1027.6	1027.4	1029.0	1028.2	1030.4	1031.2	1031.7
8	1025.0	1023.3	1025.6	1025.3	1027.5	1029.2	1029.6
9	1021.1	1018.9	1021.5	1021.3	1024.1	1026.2	1026.8
10	1017.7	1014.5	1017.2	1017.2	1020.6	1022.4	1024.0
11	1013.1	1009.4	1012.4	1012.7	1016.4	1019.2	1020.7
12	1008.1	1003.9	1005.8	1007.4	1011.6	1015.5	1017.3
13	1003.0	997.8	1000.5	1002.1	1007.0	1010.6	1013.1
14	997.6	991.2	993.9	995.8	1000.8	1006.3	1008.8
15	992.4	984.9	986.8	989.3	995.0	1001.5	1004.1
16	985.3	978.0	979.8	981.7	989.0	996.2	999.2
17	978.3	969.7	971.8	974.6	982.6	990.9	994.1
18	971.4	961.3	963.4	966.3	975.7	984.3	988.3
19	964.6	952.5	955.4	958.6	968.6	978.3	981.8
20	955.9	944.3	946.5	950.1	960.6	971.5	976.4
21	948.3	936.2	937.0	940.2	952.8	964.8	969.6
22	940.1	925.5	926.5	931.3	944.8	957.6	962.7
23	930.9	915.4	916.3	921.5	935.8	949.4	956.5
24	922.4	905.3	906.0	912.0	926.4	941.7	948.6
25	913.1	893.9	895.1	900.9	917.1	933.8	941.2
26	903.2	882.9	883.6	890.3	907.9	925.1	933.1
27	893.0	873.1	871.9	879.3	897.9	916.3	925.9
28	883.0	860.9	860.0	868.6	887.9	907.5	916.4
29	872.0	848.7	847.0	856.7	877.5	898.5	909.2
30	861.7	835.6	836.5	842.2	867.3	889.1	899.7
31	849.5	825.7	823.8	832.3	855.0	878.5	889.7
32	837.7	811.7	810.9	821.4	843.4	869.0	880.1
33	829.6	799.2	797.8	806.7	834.7	858.8	870.1
34	816.8	787.1	782.7	793.8	822.5	846.1	860.8
35	804.3	772.3	767.9	780.9	810.3	838.6	852.9
36	792.1	759.0	754.7	767.4	798.4	827.5	843.3

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL2HT25W4K.IES

CANDELA TABULATION - (Cont.)

37	780.4	745.6	740.2	754.2	784.5	816.3	831.8
38	767.7	732.8	726.2	739.7	772.0	804.4	820.0
39	755.3	717.1	711.3	725.3	760.4	792.8	809.7
40	742.5	703.7	696.9	711.1	747.8	781.4	798.4
41	729.9	689.4	681.8	697.8	735.4	770.0	787.6
42	716.2	674.7	666.5	683.1	721.6	758.8	776.8
43	702.3	659.8	651.7	669.3	709.8	745.7	765.2
44	689.7	645.5	636.5	653.1	695.9	733.4	752.8
45	676.1	631.1	620.4	640.1	681.8	721.6	741.7
46	663.0	616.3	605.4	624.8	668.3	709.5	729.6
47	649.5	602.0	589.8	610.5	654.3	696.4	718.1
48	634.7	586.1	574.4	594.0	641.9	684.3	706.0
49	621.5	571.0	559.7	579.8	627.4	671.0	694.9
50	608.2	556.7	543.0	563.2	613.6	657.8	681.7
51	593.7	540.7	527.6	548.2	600.0	646.6	670.5
52	580.2	525.6	512.1	534.3	586.8	633.0	658.1
53	566.9	511.0	496.2	518.6	573.2	620.9	645.9
54	553.1	496.2	480.5	503.2	559.0	608.3	634.0
55	539.5	481.3	463.8	488.1	545.6	595.4	621.0
56	524.8	465.1	448.0	474.0	531.5	581.9	608.8
57	511.7	450.5	430.9	457.8	517.7	569.8	595.9
58	498.1	436.0	415.3	442.2	505.4	557.4	584.4
59	484.7	421.1	399.3	427.1	490.9	544.6	571.7
60	470.1	405.0	383.7	412.2	477.0	530.4	559.5
61	457.0	390.3	368.2	398.0	464.2	518.3	547.6
62	443.8	376.5	351.5	383.7	450.8	505.1	534.4
63	431.4	361.7	335.7	367.1	437.0	493.0	522.3
64	416.8	346.2	320.6	353.9	423.6	480.6	510.6
65	404.4	332.0	305.0	339.4	410.8	468.7	499.2
66	391.8	317.5	287.5	325.8	398.1	456.1	487.0
67	379.7	304.0	272.6	310.3	385.9	444.0	474.0
68	365.9	288.9	257.2	295.9	372.4	432.1	462.4
69	354.1	275.5	240.6	282.3	359.9	420.5	449.9
70	341.8	262.1	225.7	268.1	347.9	409.5	439.3
71	330.3	248.9	210.3	255.1	335.7	397.9	427.3
72	317.2	234.6	195.1	242.1	323.9	386.2	415.9
73	305.8	221.6	180.9	229.0	311.1	374.8	405.2
74	294.8	209.0	164.8	216.1	300.3	364.1	393.5
75	283.6	197.1	150.9	203.7	288.8	352.3	382.5
76	271.9	183.7	136.6	191.7	277.2	342.0	371.8
77	261.5	172.5	122.8	178.6	266.3	331.9	361.3
78	251.5	161.4	108.8	168.0	255.6	321.6	350.6
79	241.3	150.6	95.1	156.4	245.6	311.5	339.7
80	230.2	139.2	82.7	146.4	235.0	301.2	329.4
81	220.9	129.2	70.6	136.0	225.3	291.5	319.6
82	211.9	119.9	58.3	125.6	216.2	282.2	308.8
83	203.0	111.1	47.1	116.9	207.1	272.9	299.2
84	194.1	102.5	37.6	107.7	198.3	263.7	290.0
85	186.0	93.6	28.8	99.2	188.9	253.9	281.1
86	177.2	86.1	19.7	91.2	181.1	245.3	270.9
87	169.3	79.1	13.3	83.9	173.0	237.0	262.4
88	161.8	72.6	7.7	77.1	164.7	227.8	253.7
89	154.1	66.0	3.0	71.0	157.3	219.9	245.3
90	146.8	60.4	0.0	64.9	149.9	211.8	236.8
91	140.5	55.4	0.0	58.9	142.9	203.7	228.9
92	133.7	50.4	0.0	54.1	135.7	196.3	220.2

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL2HT25W4K.IES

CANDELA TABULATION - (Cont.)

93	127.7	45.3	0.0	49.5	129.5	188.5	212.8
94	121.1	41.7	0.0	45.1	123.4	181.2	205.0
95	115.4	38.2	0.0	40.7	117.8	174.4	197.3
96	109.8	35.2	0.0	38.4	112.0	167.9	190.2
97	104.3	32.0	0.0	35.1	106.7	161.0	183.3
98	98.8	29.6	0.0	31.8	101.3	154.0	176.5
99	94.2	27.4	0.0	29.3	96.7	148.4	169.8
100	90.2	25.2	0.0	27.4	92.1	142.3	162.9
101	85.6	23.6	0.0	25.4	87.4	136.4	156.8
102	81.1	21.7	0.0	23.3	83.7	131.4	150.5
103	77.0	20.0	0.0	21.6	78.9	125.5	144.9
104	72.9	18.5	0.0	20.1	74.7	120.7	138.5
105	69.7	17.1	0.0	18.5	71.3	115.3	133.3
106	65.9	16.2	0.0	17.3	67.9	110.6	128.0
107	62.5	15.3	0.0	16.5	64.4	105.8	122.7
108	59.3	14.4	0.0	15.4	61.2	101.5	117.9
109	56.8	12.9	0.0	14.0	58.4	97.6	113.1
110	53.6	12.5	0.0	13.7	55.4	93.1	108.1
111	50.6	11.6	0.0	12.7	52.6	88.7	103.9
112	48.4	10.7	0.0	11.6	50.1	85.3	99.3
113	45.9	9.9	0.0	11.2	47.6	81.8	95.0
114	43.5	9.4	0.0	10.3	45.3	78.4	91.0
115	41.6	8.2	0.0	10.0	42.9	74.9	86.9
116	39.3	8.8	0.0	9.2	40.5	71.3	83.0
117	37.7	7.8	0.0	8.8	39.1	68.4	79.8
118	35.9	8.0	0.0	8.4	37.1	64.9	75.9
119	34.2	7.2	0.0	8.0	35.3	62.3	72.6
120	32.5	7.0	0.0	7.6	33.7	59.6	69.5
121	30.8	6.6	0.0	7.1	32.0	56.5	66.4
122	29.8	6.0	0.0	6.4	30.8	54.1	63.6
123	28.2	6.0	0.0	6.4	29.5	51.2	60.6
124	26.9	5.8	0.0	6.3	27.8	49.2	58.1
125	25.5	5.8	0.0	5.8	26.6	46.9	55.4
126	24.1	5.6	0.0	6.0	25.0	44.7	52.8
127	23.2	5.2	0.0	5.5	24.2	42.6	49.6
128	22.3	5.2	0.0	5.7	23.3	40.5	47.8
129	21.0	5.2	0.0	5.6	21.9	38.9	45.5
130	19.8	5.3	0.0	5.0	20.8	37.2	42.9
131	19.0	4.9	0.0	5.0	20.1	35.6	41.1
132	18.1	5.0	0.0	5.4	18.8	34.1	39.4
133	17.3	4.7	0.0	4.5	18.0	31.8	37.3
134	16.2	4.9	0.9	4.7	17.0	30.7	35.5
135	15.5	5.1	0.0	5.0	16.1	28.9	33.8
136	14.8	4.6	0.0	4.9	15.8	27.8	32.4
137	14.0	4.7	0.6	4.1	14.7	26.3	30.3
138	12.9	4.8	0.8	4.2	14.6	25.1	29.1
139	12.8	4.8	1.3	4.5	13.9	23.8	27.6
140	12.1	4.9	1.1	4.5	13.4	22.4	26.1
141	12.2	5.0	1.6	4.8	12.8	21.5	24.9
142	11.2	4.6	1.3	4.6	11.9	20.1	23.4
143	11.2	4.6	1.6	4.5	11.7	19.1	22.0
144	10.3	4.6	2.3	4.7	11.3	18.7	21.2
145	10.4	5.0	2.1	4.3	11.2	17.6	20.0
146	10.0	4.8	2.3	4.3	10.5	16.8	19.1
147	9.4	4.8	2.3	5.1	10.3	15.9	17.8
148	9.0	4.9	2.2	4.8	10.3	15.4	16.9

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL2HT25W4K.IES

CANDELA TABULATION - (Cont.)

149	8.9	4.3	2.5	4.9	9.7	14.9	16.1
150	8.5	5.3	2.6	5.1	9.3	13.8	15.2
151	7.7	5.2	2.8	4.7	9.3	13.5	14.7
152	8.3	4.8	2.9	4.0	8.7	12.4	13.7
153	7.7	4.8	2.8	5.1	8.5	12.2	12.7
154	7.7	5.4	3.0	5.2	7.7	11.5	12.4
155	7.4	5.0	3.2	5.1	8.4	10.9	11.7
156	7.6	4.7	3.5	5.1	8.1	10.2	10.8
157	7.1	5.3	3.6	5.5	8.1	9.2	10.3
158	7.1	5.5	4.1	5.4	7.5	9.8	9.7
159	6.9	5.1	3.8	5.7	7.4	8.9	9.5
160	7.0	5.3	3.8	5.4	6.9	8.4	8.8
161	6.9	5.2	4.0	5.3	6.8	8.4	8.1
162	7.0	5.4	3.9	5.2	6.7	8.0	7.6
163	6.6	5.4	3.9	4.9	6.6	7.4	7.8
164	6.3	5.6	3.7	5.4	6.2	7.2	7.2
165	6.6	5.7	4.2	4.8	6.2	7.1	7.1
166	6.7	6.0	4.3	5.2	5.9	6.8	6.9
167	6.3	5.5	4.7	5.4	6.2	6.7	6.2
168	6.6	5.9	4.6	5.4	5.6	5.6	6.2
169	5.9	5.6	4.5	5.6	5.4	6.4	5.5
170	6.4	5.8	4.2	5.4	5.7	5.7	6.1
171	6.8	6.1	4.1	4.9	5.6	5.6	5.9
172	6.3	5.6	4.5	5.2	5.2	5.2	5.7
173	5.5	5.5	4.2	5.0	5.8	5.7	5.5
174	5.3	5.6	4.6	5.1	5.5	5.2	5.8
175	5.8	5.1	4.7	4.9	5.7	5.9	5.8
176	5.8	5.1	4.7	5.4	5.5	5.7	5.5
177	5.1	5.5	4.6	5.1	5.0	5.7	5.1
178	4.8	5.2	4.8	4.7	5.4	4.4	4.4
179	4.7	4.7	4.6	4.7	4.9	5.2	4.6
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL2HT25W4K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	378.26	10.90	10.90
0-30	799.30	23.10	23.10
0-40	1303.11	37.60	37.60
0-60	2306.63	66.60	66.60
0-80	2993.69	86.50	86.50
0-90	3182.12	91.90	91.90
10-90	3083.92	89.10	89.10
20-40	924.85	26.70	26.70
20-50	1446.84	41.80	41.80
40-70	1400.51	40.50	40.50
60-80	687.06	19.80	19.80
70-80	290.07	8.40	8.40
80-90	188.44	5.40	5.40
90-110	188.90	5.50	5.50
90-120	231.01	6.70	6.70
90-130	254.76	7.40	7.40
90-150	274.12	7.90	7.90
90-180	279.67	8.10	8.10
110-180	90.77	2.60	2.60
0-180	3461.8	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.20
10-20	280.06
20-30	421.04
30-40	503.81
40-50	521.99
50-60	481.52
60-70	396.99
70-80	290.07
80-90	188.44
90-100	117.23
100-110	71.67
110-120	42.10
120-130	23.75
130-140	12.75
140-150	6.61
150-160	3.41
160-170	1.65
170-180	0.49

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL2HT25W4K.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

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
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	100	95	90	101	97	92	88	91	87	84	85	82	80	81	78	76	73
2	95	86	79	72	92	83	77	71	79	73	68	74	69	65	70	66	63	60
3	86	75	67	60	83	73	65	59	69	62	57	65	59	55	61	57	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	51	46	55	49	45	42
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	43	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	38	31	26	36	30	25	34	29	24	23
10	50	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	20

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SWLSEL2HT25W4K.IES

UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	19.3	20.8	19.8	21.3	21.8	18.3	19.8	18.8	20.3	20.8
	3H	21.5	22.8	22.0	23.3	23.9	19.8	21.2	20.3	21.7	22.2
	4H	22.4	23.7	22.9	24.2	24.8	20.3	21.6	20.9	22.1	22.7
	6H	23.3	24.6	23.9	25.1	25.6	20.6	21.9	21.2	22.4	23.0
	8H	23.7	24.9	24.3	25.5	26.0	20.7	21.9	21.2	22.4	23.0
	12H	24.2	25.3	24.7	25.8	26.4	20.7	21.8	21.3	22.4	23.0

UGR Viewed Endwise

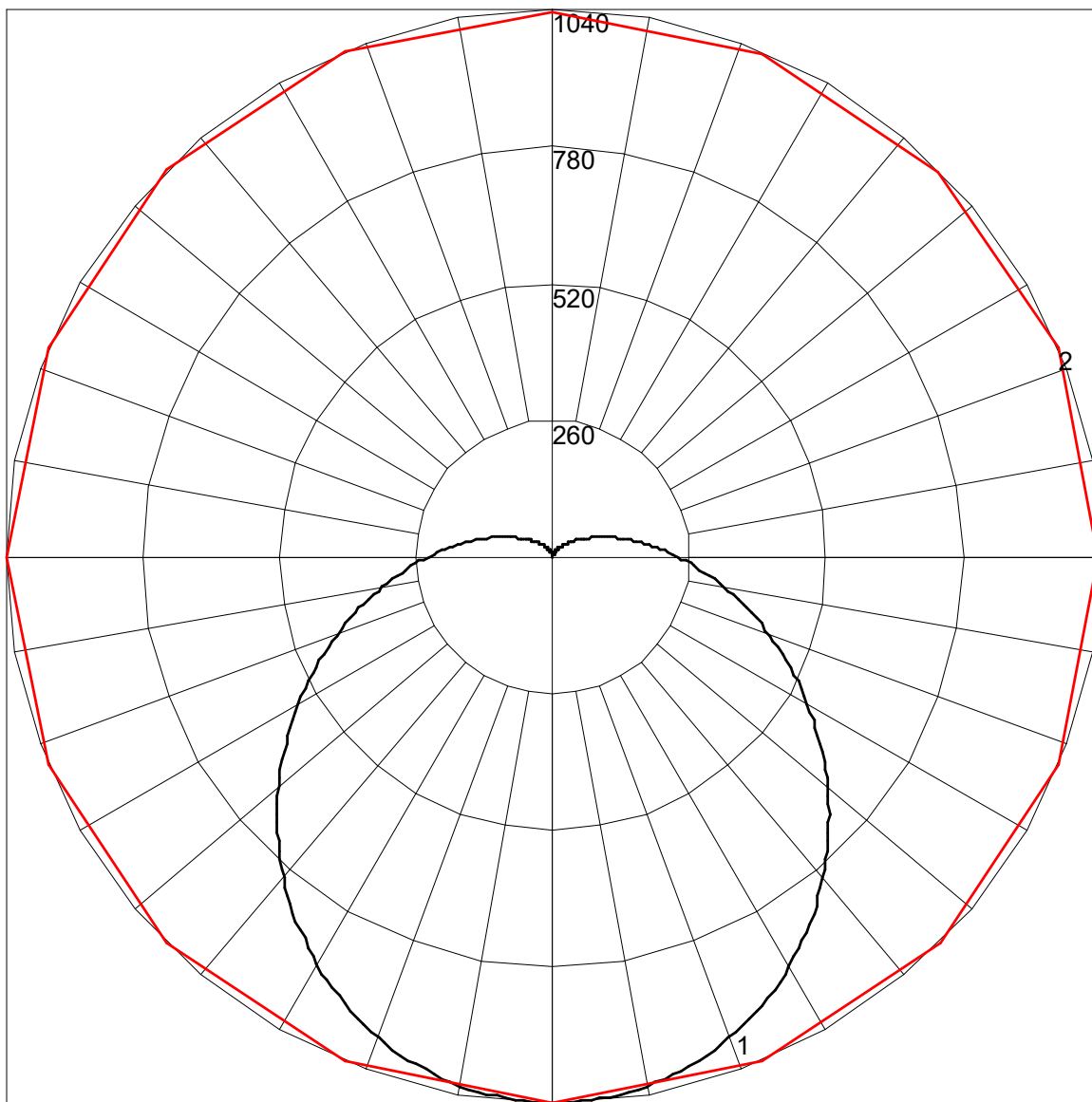
4H	2H	19.9	21.2	20.4	21.7	22.2	19.0	20.3	19.5	20.8	21.4
	3H	22.2	23.3	22.7	23.9	24.5	20.8	21.9	21.3	22.4	23.0
	4H	23.4	24.4	23.9	24.9	25.5	21.4	22.4	22.0	23.0	23.6
	6H	24.5	25.4	25.0	25.9	26.6	21.9	22.8	22.4	23.4	24.0
	8H	25.0	25.8	25.6	26.4	27.0	22.0	22.8	22.6	23.4	24.1
	12H	25.5	26.3	26.1	26.9	27.5	22.0	22.8	22.6	23.4	24.1

8H	4H	23.6	24.5	24.2	25.1	25.7	22.0	22.8	22.5	23.4	24.0
	6H	24.9	25.7	25.5	26.3	26.9	22.6	23.3	23.2	23.9	24.6
	8H	25.6	26.2	26.2	26.9	27.5	22.8	23.5	23.4	24.1	24.7
	12H	26.3	26.9	26.9	27.5	28.2	23.0	23.5	23.6	24.2	24.9

12H	4H	23.7	24.4	24.3	25.0	25.7	22.1	22.9	22.7	23.5	24.1
	6H	25.0	25.7	25.6	26.3	27.0	22.8	23.5	23.4	24.1	24.8
	8H	25.7	26.3	26.4	26.9	27.7	23.1	23.7	23.7	24.3	25.0

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 1040 Located At Horizontal Angle = 22.5, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)