

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SWLSEL2HT20W4K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] RKS231113001-10
[ISSUE DATE] 2023/11/15 15:50
[MANUFAC] BEST LIGHTING PRODUCTS INC.
[LUMCAT] STAIRWELL PASSAGEWAY LUMINAIRE
[LUMINAIRE] SWLSEL2HT20W4K
[LAMP] LED
[_VOLTAGE] 120.0 V
[_CURRENT] 0.168 A
[_POWERFACTOR] 0.998
[TESTLAB] BEGHELLI
[_TESTINST] GPM-1900
[_TESTDIST] 14.210 m
[_TESTTEMPERATURE] 24.8 'C
[_TESTHUMIDITY] 49
[BALLAST]
[BALLASTCAT]

CHARACTERISTICS

Lumens Per Lamp	2880.4 (1 lamp)
Total Lamp Lumens	2880.4
Luminaire Lumens	2880
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	20.12
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	11494	8231	7005
55	11432	7207	5623
65	11762	6206	4113
75	13078	5258	2319
85	18575	4566	446

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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	865.9	865.9	865.9	865.9	865.9	865.9	865.9	865.9	865.9	865.9
1	866.6	865.7	865.7	865.7	865.7	865.2	865.6	865.6	866.1	865.5
2	866.7	865.2	865.1	865.2	864.9	864.6	865.3	865.2	865.2	864.6
3	866.0	864.5	864.3	864.3	863.8	863.5	864.3	864.1	865.8	863.9
4	865.1	863.3	863.5	862.8	861.8	861.6	862.8	863.1	864.6	862.6
5	864.2	862.3	861.9	861.2	859.7	859.8	860.9	861.2	863.8	861.3
6	863.2	860.5	859.7	859.0	857.0	856.7	858.6	859.1	861.7	859.5
7	861.5	858.7	857.5	856.3	853.8	854.1	856.2	856.8	861.7	857.3
8	859.9	856.1	855.1	853.4	850.3	850.4	853.0	855.0	858.3	854.7
9	858.0	853.5	851.9	849.9	846.4	846.5	849.5	852.4	856.9	852.0
10	855.9	851.7	848.3	845.9	842.3	842.8	846.1	849.2	855.1	849.7
11	853.5	848.2	844.0	841.3	838.9	839.5	842.3	847.0	852.7	846.5
12	850.0	845.3	841.0	837.1	833.8	836.1	839.0	844.8	848.4	843.6
13	847.3	841.5	838.7	832.7	829.5	831.5	835.7	840.8	844.8	839.9
14	843.0	838.4	833.1	827.8	823.6	826.7	831.9	837.3	841.3	838.3
15	839.4	835.2	830.0	823.2	816.5	819.8	827.0	833.4	836.9	833.5
16	835.1	831.1	824.3	816.6	809.5	813.4	821.6	828.6	832.8	828.1
17	830.1	825.3	818.4	810.5	803.0	806.9	815.5	823.1	828.4	823.5
18	825.3	820.3	812.5	803.4	795.9	800.3	808.9	817.6	823.8	818.3
19	820.6	815.0	805.7	796.0	788.6	792.4	802.5	812.3	818.2	812.4
20	815.6	809.4	799.4	788.6	779.9	784.9	796.0	806.7	812.9	806.7
21	810.3	803.6	792.9	780.9	771.7	777.3	789.1	800.9	807.5	800.9
22	804.6	796.9	785.8	773.2	763.5	769.4	782.2	794.1	802.0	794.9
23	798.2	790.6	778.6	764.9	754.6	761.1	774.6	787.8	796.5	788.7
24	792.1	784.2	770.7	755.8	745.8	752.6	767.3	781.4	790.4	782.0
25	786.0	776.8	762.6	747.0	735.5	743.3	759.3	774.7	783.9	774.7
26	779.2	769.8	754.9	738.1	726.0	733.9	751.2	767.3	777.3	767.8
27	772.9	762.6	745.3	728.6	716.4	724.8	742.1	760.3	770.8	760.6
28	765.6	755.4	737.4	719.1	706.2	715.3	733.8	752.7	763.8	753.3
29	758.6	747.9	728.8	708.5	695.7	704.3	725.4	744.8	756.6	744.9
30	751.3	739.0	719.7	698.5	684.7	694.4	716.4	737.4	748.8	737.4
31	743.8	730.8	710.5	688.3	674.3	684.3	706.1	728.8	741.5	729.4
32	736.0	723.0	701.1	677.5	663.2	673.8	696.6	720.6	733.8	721.3
33	728.4	714.6	691.3	666.6	651.8	662.7	687.2	712.2	725.4	712.0
34	719.3	705.5	681.3	656.0	639.4	651.7	677.9	704.0	717.7	703.4
35	710.8	696.2	671.7	645.1	628.0	640.9	668.3	694.2	709.6	694.8
36	702.4	687.4	661.6	633.8	616.3	629.9	657.3	685.4	701.4	686.0
37	693.7	678.1	651.5	622.3	604.8	617.8	647.2	676.6	692.0	676.7
38	684.6	668.6	640.8	611.4	591.4	606.5	637.2	667.6	682.9	667.1
39	676.1	659.6	629.4	598.4	579.0	595.0	626.7	658.4	674.4	657.7
40	667.6	649.3	619.2	586.8	567.3	583.1	615.4	648.0	665.6	648.6
41	658.3	639.5	608.8	574.7	554.7	571.7	604.7	638.3	656.5	639.2
42	648.2	630.7	597.0	563.4	541.5	558.3	593.7	628.9	646.6	628.1
43	639.1	620.1	585.9	552.0	529.0	546.8	583.4	618.1	637.5	618.7
44	629.3	610.1	574.2	538.8	516.7	534.6	571.3	608.3	628.0	608.8
45	619.6	599.7	563.8	527.4	503.0	521.5	560.6	598.1	617.8	598.2
46	610.1	588.5	552.9	515.0	490.2	509.2	549.7	588.3	608.1	588.1
47	599.2	578.4	541.0	501.5	477.6	497.0	538.3	578.0	598.3	578.0
48	589.9	567.6	529.8	489.2	464.5	484.6	527.3	566.8	588.6	567.6
49	580.2	557.4	517.9	477.2	451.9	472.6	515.3	557.0	578.8	557.3
50	569.4	546.6	506.0	464.1	437.7	459.1	504.0	546.8	568.2	546.3
51	559.7	535.9	494.2	451.6	424.6	446.6	493.3	535.0	558.1	536.2
52	549.7	526.2	483.5	438.4	412.2	434.5	481.0	524.8	548.4	525.5
53	539.2	514.7	472.1	426.6	399.2	421.9	469.7	514.0	538.3	515.2

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CANDELA TABULATION - (Cont.)

54	528.1	504.2	459.7	413.0	384.7	408.7	458.6	503.7	527.3	504.1
55	518.4	493.5	448.6	401.2	371.6	396.3	447.3	493.3	517.2	493.5
56	508.4	482.4	436.6	387.3	358.8	383.9	436.3	482.1	507.0	483.1
57	497.5	471.7	425.1	375.0	345.9	371.6	424.1	471.5	497.0	473.0
58	487.5	461.1	413.9	362.8	332.8	358.4	413.5	461.4	487.3	461.4
59	477.0	451.5	402.9	349.9	318.6	346.1	402.4	451.1	475.7	451.0
60	467.0	439.9	390.3	338.0	305.6	333.9	390.2	439.4	465.8	440.5
61	456.1	430.2	380.0	324.7	292.6	320.7	379.4	429.4	455.8	430.4
62	446.3	419.5	368.0	312.5	278.1	309.0	368.5	419.3	445.1	419.3
63	436.1	408.8	356.8	300.2	265.7	296.8	357.9	409.0	435.0	409.3
64	426.3	398.5	346.1	287.1	252.8	285.2	347.1	398.0	425.3	399.1
65	416.5	388.3	335.8	276.0	240.0	273.2	336.8	388.1	415.2	389.0
66	405.4	378.2	324.6	262.9	227.0	260.6	325.0	377.9	405.5	379.0
67	396.0	367.6	313.5	251.3	213.3	249.2	314.6	368.2	394.6	368.4
68	386.3	358.2	303.4	240.2	201.1	237.8	303.7	357.6	385.1	358.6
69	375.6	348.1	292.9	227.2	188.2	226.7	293.6	347.8	375.6	349.1
70	366.6	337.5	281.9	216.2	174.4	214.6	283.4	338.5	365.2	338.6
71	357.0	329.0	272.9	204.7	162.2	203.4	273.5	329.1	355.7	329.0
72	347.4	318.5	263.0	193.6	149.9	192.5	263.9	318.8	346.3	320.3
73	337.3	309.4	252.9	182.1	137.7	181.0	253.5	309.7	337.0	310.7
74	328.4	300.8	243.5	171.7	125.0	170.6	243.8	300.7	327.2	300.5
75	319.1	290.8	233.1	161.8	113.3	161.0	234.9	291.8	318.2	291.7
76	310.6	282.1	224.6	151.8	101.8	151.1	226.1	282.3	309.4	283.3
77	301.7	273.3	215.6	142.1	90.7	141.7	216.4	273.9	300.6	274.8
78	292.5	264.7	206.5	132.5	79.9	131.6	207.9	265.2	292.0	266.4
79	283.5	256.3	198.5	122.6	67.9	123.1	199.5	257.0	282.6	256.9
80	275.2	247.3	189.5	114.2	58.4	114.2	191.4	247.9	274.5	248.8
81	267.0	239.3	181.5	105.7	48.7	106.3	182.9	240.2	266.1	241.2
82	258.0	231.8	174.1	97.2	39.7	97.6	175.4	232.5	258.0	233.1
83	250.0	224.0	165.6	89.8	32.0	90.5	168.0	224.6	249.2	225.0
84	242.1	216.4	158.9	82.1	23.3	83.7	160.6	217.0	241.4	217.3
85	234.9	208.6	151.6	75.3	16.9	77.1	153.7	209.0	234.1	210.2
86	226.2	201.2	144.7	69.0	11.2	69.9	146.4	202.3	226.6	202.9
87	219.1	194.7	138.1	63.2	6.5	64.6	140.1	195.0	218.4	195.3
88	211.9	186.9	131.4	57.6	2.7	59.2	133.9	188.3	211.5	188.7
89	204.7	180.5	125.4	52.7	0.0	54.2	127.8	180.9	204.4	181.6
90	197.5	173.7	119.8	47.7	0.0	49.2	121.3	174.6	197.6	175.5
91	190.2	167.5	114.3	43.2	0.0	44.5	115.8	168.3	190.5	168.5
92	183.8	160.8	108.2	39.5	0.0	40.9	110.0	161.9	184.0	162.2
93	177.7	154.6	103.2	36.1	0.0	37.5	105.1	155.2	177.3	156.3
94	170.9	149.1	98.2	32.4	0.0	34.3	100.0	149.6	171.0	150.4
95	164.3	143.4	93.3	30.4	0.0	30.7	94.9	143.8	165.0	144.6
96	158.4	137.6	88.6	27.4	0.0	28.2	90.2	138.5	158.8	138.8
97	152.6	131.9	84.6	24.6	0.0	25.7	85.7	132.7	152.8	133.4
98	147.4	126.9	80.0	22.8	0.0	24.0	81.8	127.6	147.0	128.4
99	140.8	121.8	76.0	20.8	0.0	21.3	77.6	122.3	141.6	123.2
100	135.8	116.0	72.5	19.3	0.0	19.8	73.4	117.4	136.3	117.9
101	131.2	111.8	68.8	17.8	0.0	17.9	69.7	112.9	131.0	113.0
102	125.6	107.0	65.4	16.0	0.0	16.2	66.3	107.8	125.7	108.4
103	120.7	102.4	61.8	15.0	0.0	14.7	62.4	103.8	120.7	104.1
104	115.7	98.5	58.9	14.4	0.0	13.0	59.3	99.4	116.8	99.8
105	110.9	93.8	55.6	12.8	0.0	11.6	56.7	95.4	111.6	95.3
106	106.8	90.2	52.9	11.9	0.0	10.6	53.5	91.0	106.7	91.4
107	102.3	86.6	50.5	11.4	0.0	9.9	50.8	86.7	102.6	87.3
108	98.0	82.8	47.4	10.8	0.0	9.3	47.7	83.0	98.6	83.7
109	93.7	79.5	45.5	9.6	0.0	8.8	44.7	79.5	94.3	79.6

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CANDELA TABULATION - (Cont.)

110	90.1	75.5	42.9	9.2	0.0	8.4	42.5	76.1	89.8	75.9
111	86.0	72.0	40.5	8.5	0.0	7.4	40.3	72.1	86.1	72.4
112	82.4	69.3	39.0	7.6	0.0	7.1	37.9	68.6	82.4	69.4
113	78.7	66.2	37.0	7.6	0.0	6.1	35.7	65.6	78.9	66.1
114	75.2	63.3	35.1	6.7	0.0	6.0	33.6	62.6	75.0	62.6
115	72.2	59.9	33.6	6.2	0.0	6.2	31.6	59.4	71.5	60.0
116	68.9	57.4	31.6	6.5	0.0	5.8	29.3	55.9	68.5	56.8
117	66.0	55.0	29.9	5.8	0.0	5.5	27.8	53.6	65.3	54.3
118	63.2	52.5	28.9	5.7	0.0	4.5	26.4	51.1	61.7	51.2
119	60.6	50.0	26.9	5.4	0.0	5.0	25.3	48.4	59.0	48.4
120	57.8	47.8	25.9	5.2	0.0	4.8	23.4	45.4	55.8	45.9
121	54.9	45.6	24.3	4.4	0.0	4.5	22.4	43.1	53.3	43.2
122	52.3	43.7	23.1	4.5	0.0	4.2	21.9	41.0	50.5	41.0
123	50.0	41.3	22.3	3.9	0.0	3.9	20.4	38.7	47.4	39.0
124	48.1	39.8	21.3	4.1	0.0	4.1	19.4	36.4	45.3	36.9
125	45.3	38.3	20.2	3.9	0.0	3.6	18.3	34.8	42.6	35.0
126	43.3	36.4	19.5	3.9	0.0	3.3	17.3	33.1	40.2	33.5
127	41.4	34.0	18.1	3.7	0.0	3.6	16.4	31.0	38.4	31.6
128	39.2	32.7	17.1	3.6	0.0	3.2	15.4	29.8	36.3	29.9
129	37.7	31.1	16.5	3.4	0.0	3.0	14.8	28.3	34.6	28.3
130	36.0	29.8	15.9	2.8	0.0	3.2	14.1	26.9	32.9	27.3
131	34.3	28.1	14.9	3.0	0.0	3.2	13.4	25.2	31.8	25.3
132	32.6	27.0	14.3	2.9	0.0	3.2	12.9	24.2	29.5	24.6
133	30.6	25.9	13.8	2.8	0.0	2.9	12.2	23.2	28.1	23.3
134	29.5	24.5	12.8	2.7	0.0	2.8	12.1	22.0	26.3	22.2
135	28.1	23.1	11.9	3.0	0.0	2.8	11.2	20.5	25.2	21.1
136	26.3	22.1	11.8	2.7	0.0	3.1	10.6	19.8	24.0	20.1
137	24.9	20.9	11.1	2.9	0.0	2.9	10.2	18.5	23.1	18.9
138	24.0	19.9	10.5	2.7	0.0	2.8	9.1	17.7	21.8	17.8
139	22.6	18.7	9.9	2.5	0.0	2.7	9.0	16.3	20.2	17.1
140	21.4	17.8	9.6	2.5	0.0	2.9	8.5	16.3	19.2	16.5
141	20.4	16.7	8.6	2.3	0.0	2.8	8.2	15.1	18.7	15.2
142	19.7	15.8	8.3	2.7	0.0	2.4	8.2	14.4	17.4	15.1
143	18.4	15.3	8.6	2.6	0.0	2.6	7.5	13.6	16.2	13.8
144	17.1	14.0	7.8	3.1	0.0	3.2	7.5	12.8	15.6	13.1
145	16.4	13.1	7.3	2.4	0.7	2.8	7.4	12.1	14.8	12.6
146	15.6	12.4	7.2	2.6	0.8	2.9	6.9	11.5	13.8	11.7
147	14.8	11.9	6.4	2.7	0.9	3.0	6.6	11.2	13.2	11.2
148	13.7	11.3	6.0	3.0	0.7	2.7	6.5	10.5	12.8	10.9
149	12.7	10.3	5.7	2.5	0.9	2.7	5.8	10.2	11.7	10.4
150	12.5	9.9	5.7	2.4	1.5	3.0	6.3	9.6	11.2	9.7
151	11.5	9.2	5.1	3.3	1.0	3.2	5.8	9.1	10.6	8.9
152	10.6	8.7	4.7	3.3	1.3	3.1	5.8	9.1	10.3	9.3
153	10.3	7.7	4.6	3.0	1.3	3.3	5.5	8.6	9.5	8.5
154	9.4	6.8	4.0	3.3	1.6	3.1	5.5	8.0	9.1	7.9
155	9.1	7.3	4.3	3.4	1.5	3.2	5.8	7.2	8.4	7.7
156	8.6	6.5	4.0	3.2	1.9	3.3	5.6	6.6	8.2	7.5
157	8.2	6.4	4.1	3.6	1.6	3.4	5.1	6.9	7.9	7.4
158	7.8	6.1	4.2	3.3	1.6	3.3	5.1	6.3	7.4	7.1
159	7.2	5.5	4.1	3.2	2.1	3.1	4.7	6.4	6.7	7.1
160	6.6	5.1	4.4	3.3	2.3	3.2	4.7	6.0	7.0	6.7
161	6.2	4.4	3.9	3.0	2.3	3.2	4.5	5.8	6.7	6.3
162	5.6	4.9	3.6	3.2	1.9	3.1	4.3	5.2	6.3	5.9
163	5.4	4.9	3.8	3.3	2.0	3.2	4.9	5.8	5.9	5.8
164	5.2	4.1	3.3	3.5	2.0	2.9	4.1	5.0	6.1	5.4
165	5.0	4.3	3.6	3.3	2.2	3.0	4.6	5.5	5.8	5.7

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166	4.7	4.4	3.6	3.7	2.2	3.1	4.5	5.3	5.8	5.7
167	5.5	4.4	3.8	3.3	2.2	3.3	4.2	4.8	5.3	4.9
168	4.8	4.4	3.4	3.7	2.0	3.3	4.0	5.1	5.6	5.4
169	4.2	3.8	3.7	3.5	2.6	3.4	4.3	5.4	4.8	4.8
170	4.4	3.6	3.6	3.5	1.9	3.5	4.1	5.0	5.1	4.9
171	4.4	3.9	3.4	3.4	2.8	3.4	4.0	4.8	5.1	4.7
172	4.5	3.6	3.8	3.3	2.6	3.2	3.8	4.6	4.0	4.1
173	4.5	3.6	3.6	3.7	3.0	3.2	3.7	4.4	4.3	4.7
174	4.3	3.9	3.7	3.9	2.6	2.8	3.9	4.3	4.3	4.2
175	4.4	3.8	3.8	3.5	2.7	2.9	3.4	4.4	4.2	4.1
176	4.2	4.2	3.9	3.9	2.9	3.1	3.6	3.9	4.4	4.7
177	4.2	4.1	3.5	3.7	2.9	3.2	3.4	3.6	4.1	4.1
178	3.6	3.9	3.4	3.7	3.3	3.2	3.0	3.3	4.1	4.2
179	3.5	3.8	2.9	3.7	3.3	3.2	3.4	3.4	3.6	3.6
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	865.9	865.9	865.9	865.9	865.9	865.9	865.9
1	865.8	865.8	866.1	865.8	865.9	865.8	866.6
2	865.0	865.0	865.3	865.2	865.1	865.0	866.7
3	864.1	863.9	864.6	864.3	864.4	865.0	866.0
4	862.7	862.5	863.7	863.1	863.7	864.0	865.1
5	860.8	860.5	862.0	861.6	862.4	862.7	864.2
6	859.1	858.2	859.8	859.7	860.4	861.2	863.2
7	856.8	855.5	856.9	857.2	858.6	859.4	861.5
8	853.9	852.3	853.5	854.1	855.7	856.9	859.9
9	850.7	848.8	850.1	850.5	852.9	854.6	858.0
10	846.5	844.7	845.9	846.6	849.2	851.7	855.9
11	842.9	840.0	842.4	843.6	845.2	848.1	853.5
12	840.0	835.6	839.0	838.7	841.5	846.4	850.0
13	836.6	831.5	833.5	834.5	838.9	842.5	847.3
14	832.7	826.6	829.2	831.0	834.5	839.1	843.0
15	827.9	821.9	823.4	825.4	829.8	836.4	839.4
16	823.0	816.2	817.1	819.3	825.8	831.5	835.1
17	817.0	809.8	810.6	812.8	819.8	827.2	830.1
18	810.3	802.2	803.8	806.3	813.8	821.4	825.3
19	804.2	795.1	796.1	799.6	807.8	815.5	820.6
20	797.9	788.0	788.6	792.6	800.8	810.1	815.6
21	791.0	780.4	780.8	784.1	794.3	804.3	810.3
22	783.5	771.9	772.4	776.4	787.3	798.6	804.6
23	776.5	763.5	764.4	768.6	780.3	791.8	798.2
24	769.0	755.1	754.9	760.3	772.5	785.6	792.1
25	761.5	746.2	745.6	751.2	765.2	778.7	786.0
26	752.4	736.5	736.7	742.1	756.5	772.2	779.2
27	744.3	727.0	726.2	732.9	749.1	764.5	772.9
28	736.0	717.8	717.2	724.0	740.6	756.6	765.6
29	727.6	708.0	707.3	713.2	732.3	749.4	758.6
30	718.6	698.1	697.3	703.8	722.5	741.4	751.3
31	708.7	687.2	685.4	693.7	712.5	732.7	743.8
32	699.5	676.9	673.8	683.7	704.0	724.1	736.0
33	689.6	666.5	663.0	672.2	693.9	716.0	728.4
34	679.2	656.0	652.0	661.5	684.7	707.8	719.3
35	668.8	643.8	640.1	650.3	674.9	698.7	710.8
36	658.4	632.9	628.5	639.5	664.9	689.7	702.4

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

37	648.8	621.7	617.3	627.4	654.3	680.3	693.7
38	638.3	610.3	604.5	616.5	644.1	670.8	684.6
39	628.1	597.9	592.4	605.0	633.6	662.0	676.1
40	616.9	586.2	580.2	593.2	622.8	652.5	667.6
41	606.2	574.6	567.9	581.0	612.7	642.3	658.3
42	595.5	562.7	555.9	569.8	601.5	632.4	648.2
43	583.9	549.7	543.1	557.2	590.4	622.6	639.1
44	573.0	538.0	529.4	545.8	579.0	612.4	629.3
45	562.3	525.7	517.5	533.5	567.7	601.8	619.6
46	551.0	513.9	504.3	521.2	557.5	590.6	610.1
47	539.8	501.2	492.1	508.2	546.1	580.5	599.2
48	527.9	487.8	478.8	496.2	534.1	570.5	589.9
49	517.3	475.8	466.2	484.1	523.1	560.4	580.2
50	506.8	463.6	451.8	470.1	512.2	549.5	569.4
51	494.3	450.3	439.4	457.3	499.6	538.6	559.7
52	483.2	437.8	426.1	444.8	488.7	528.5	549.7
53	472.1	425.4	413.1	431.8	477.3	517.3	539.2
54	460.6	413.3	400.4	419.4	466.1	506.3	528.1
55	449.3	400.7	386.4	407.8	455.2	496.4	518.4
56	437.0	387.5	373.4	395.1	443.1	485.4	508.4
57	425.8	374.8	358.9	382.1	432.0	474.1	497.5
58	415.1	362.7	345.7	368.6	420.9	464.0	487.5
59	403.9	350.7	332.6	356.6	409.6	453.1	477.0
60	391.6	337.2	319.2	343.6	397.5	443.3	467.0
61	380.6	325.2	306.8	332.1	386.9	431.8	456.1
62	369.7	313.2	292.4	320.0	375.8	422.4	446.3
63	359.1	301.1	279.8	306.8	364.0	412.0	436.1
64	347.0	288.1	266.9	294.9	353.5	400.7	426.3
65	336.4	276.0	253.8	283.0	342.5	390.9	416.5
66	325.9	262.9	240.8	271.4	331.8	380.7	405.4
67	315.8	251.5	226.9	258.8	321.7	371.2	396.0
68	304.4	238.7	214.4	246.8	310.3	360.5	386.3
69	294.6	227.7	200.3	235.1	300.0	350.6	375.6
70	284.6	216.4	188.1	223.6	290.0	341.1	366.6
71	274.5	205.6	175.4	212.9	279.9	331.9	357.0
72	264.0	193.7	162.3	201.8	269.4	322.1	347.4
73	254.4	183.1	150.8	191.1	259.2	312.4	337.3
74	245.3	172.6	137.2	179.8	250.1	303.2	328.4
75	235.8	162.1	125.4	169.8	240.8	294.4	319.1
76	226.1	151.6	113.6	159.5	231.0	285.0	310.6
77	217.1	141.9	102.5	149.9	221.8	276.3	301.7
78	208.5	132.7	90.7	140.4	213.3	267.8	292.5
79	200.5	123.9	78.8	130.3	204.7	259.6	283.5
80	191.3	114.4	68.6	122.0	195.6	250.7	275.2
81	184.0	106.5	58.7	113.2	188.0	242.8	267.0
82	176.0	98.6	48.4	104.6	180.2	235.0	258.0
83	168.5	90.9	39.3	97.3	172.7	227.1	250.0
84	161.1	84.1	30.9	89.9	165.1	219.3	242.1
85	154.2	77.0	23.6	83.1	157.7	211.8	234.9
86	147.0	70.7	16.5	76.0	150.8	204.5	226.2
87	140.5	64.6	10.7	69.5	143.7	197.2	219.1
88	134.1	59.2	5.6	63.9	137.1	189.6	211.9
89	127.6	54.0	2.8	58.9	130.8	182.9	204.7
90	121.8	49.3	0.0	53.9	124.9	177.1	197.5
91	116.4	45.1	0.0	49.2	119.1	169.9	190.2
92	110.7	40.9	0.0	44.6	113.1	163.1	183.8

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

93	105.2	37.3	0.0	41.3	107.7	156.7	177.7
94	100.6	33.8	0.0	37.3	103.0	151.0	170.9
95	95.1	31.2	0.0	34.4	98.2	145.3	164.3
96	91.0	28.1	0.0	31.7	92.9	139.7	158.4
97	86.3	25.8	0.0	29.0	88.7	134.3	152.6
98	81.6	23.8	0.0	27.0	83.9	128.3	147.4
99	77.4	21.7	0.0	24.5	80.3	123.8	140.8
100	74.2	20.1	0.0	22.6	76.3	118.7	135.8
101	70.1	18.6	0.0	20.6	72.6	113.9	131.2
102	66.6	17.1	0.0	19.3	69.1	109.2	125.6
103	63.3	15.9	0.0	17.8	65.7	104.1	120.7
104	60.1	14.6	0.0	16.3	62.4	100.5	115.7
105	57.3	13.7	0.0	15.4	59.7	96.2	110.9
106	53.7	12.1	0.0	14.1	56.3	92.2	106.8
107	50.8	11.7	0.0	13.2	53.6	88.0	102.3
108	48.3	10.7	0.0	12.8	50.8	84.3	98.0
109	45.6	9.7	0.0	11.4	48.0	81.0	93.7
110	42.8	9.0	0.0	10.9	45.3	77.4	90.1
111	40.8	8.4	0.0	9.9	43.4	73.5	86.0
112	38.1	8.1	0.0	9.3	41.2	70.5	82.4
113	36.2	7.4	0.0	8.7	39.1	67.7	78.7
114	34.7	6.8	0.0	8.6	37.4	64.6	75.2
115	32.2	6.2	0.0	7.9	36.1	61.8	72.2
116	30.3	5.8	0.0	7.3	33.7	59.1	68.9
117	28.7	6.1	0.0	6.8	32.2	56.4	66.0
118	27.4	5.5	0.0	6.6	30.8	54.0	63.2
119	25.8	5.0	0.0	6.3	29.1	51.5	60.6
120	24.1	4.8	0.0	6.1	27.7	49.1	57.8
121	22.9	5.0	0.0	5.7	26.4	46.3	54.9
122	21.9	4.4	0.0	6.0	24.9	44.1	52.3
123	20.4	4.7	0.0	5.4	23.6	42.5	50.0
124	19.8	4.2	0.0	4.6	22.9	40.7	48.1
125	18.4	4.3	0.0	4.6	21.9	39.1	45.3
126	17.9	4.5	0.0	4.6	20.6	37.0	43.3
127	16.9	4.1	0.0	4.8	19.6	35.5	41.4
128	16.2	3.8	0.0	4.6	18.4	33.6	39.2
129	15.7	3.6	0.0	4.3	18.2	32.1	37.7
130	14.8	2.8	0.0	4.0	16.9	30.5	36.0
131	14.2	3.4	0.0	3.6	16.2	29.0	34.3
132	13.6	3.7	0.0	3.6	15.1	27.9	32.6
133	12.7	3.5	0.0	3.7	14.6	25.9	30.6
134	12.4	3.2	0.0	3.4	13.8	25.1	29.5
135	11.9	3.5	0.0	3.3	13.0	23.8	28.1
136	11.3	3.2	0.0	3.2	12.6	22.2	26.3
137	10.6	3.3	0.0	3.4	11.9	21.3	24.9
138	10.4	3.3	0.0	3.4	11.7	20.2	24.0
139	10.1	2.9	0.8	3.0	10.7	19.7	22.6
140	9.3	3.3	0.8	3.3	10.3	18.2	21.4
141	9.3	3.4	1.3	2.8	9.9	17.4	20.4
142	8.7	3.2	1.2	2.8	9.6	16.6	19.7
143	7.9	3.2	1.3	3.3	9.5	15.5	18.4
144	8.0	3.3	1.1	2.9	9.0	14.9	17.1
145	7.9	3.2	1.5	3.3	8.3	14.3	16.4
146	7.1	3.2	1.8	3.3	8.5	13.5	15.6
147	7.2	3.4	1.4	3.4	7.8	12.7	14.8
148	6.9	3.4	1.9	3.6	7.3	12.6	13.7

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

149	6.8	3.4	1.9	3.4	7.6	11.6	12.7
150	6.0	3.3	2.1	3.2	7.3	11.0	12.5
151	6.7	3.9	2.0	2.9	7.0	10.3	11.5
152	6.0	3.9	2.0	3.5	6.8	10.1	10.6
153	5.6	3.5	2.0	3.7	6.2	8.8	10.3
154	5.8	3.4	2.5	3.8	6.2	8.6	9.4
155	5.5	3.8	2.6	3.8	6.2	8.3	9.1
156	5.3	4.2	2.4	3.8	5.6	8.1	8.6
157	5.2	3.8	2.6	4.0	5.7	7.6	8.2
158	5.7	4.1	2.7	4.1	5.3	6.8	7.8
159	5.4	4.1	3.0	4.4	5.0	6.8	7.2
160	4.7	3.7	3.2	4.3	5.3	5.9	6.6
161	5.2	3.9	2.7	3.6	5.2	6.2	6.2
162	5.1	3.8	2.9	4.1	5.1	5.6	5.6
163	4.8	4.2	2.9	4.0	4.6	5.2	5.4
164	4.4	4.1	3.8	3.6	4.5	5.4	5.2
165	4.8	4.1	3.8	4.2	4.7	4.9	5.0
166	5.0	3.7	3.8	4.0	4.7	4.2	4.7
167	5.0	4.3	3.0	4.1	4.6	4.9	5.5
168	4.4	4.3	3.6	4.0	4.5	4.5	4.8
169	4.8	4.2	3.5	4.1	4.3	4.4	4.2
170	4.7	4.2	3.5	4.3	4.3	4.5	4.4
171	4.9	3.9	3.6	4.2	4.3	4.6	4.4
172	4.6	4.2	3.1	4.1	4.0	4.2	4.5
173	4.4	3.9	3.7	4.1	3.9	3.6	4.5
174	3.9	3.8	3.3	4.2	4.1	4.7	4.3
175	4.6	4.0	3.7	3.8	4.8	4.3	4.4
176	4.2	4.0	3.3	3.6	4.3	4.4	4.2
177	4.0	3.8	3.5	3.8	4.0	3.8	4.2
178	3.9	3.6	3.5	3.4	3.6	4.1	3.6
179	4.0	3.6	3.4	4.0	3.4	3.6	3.5
180	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	315.39	10.90	10.90
0-30	666.50	23.10	23.10
0-40	1086.34	37.70	37.70
0-60	1922.6	66.70	66.70
0-80	2494.82	86.60	86.60
0-90	2651.57	92.10	92.10
10-90	2569.75	89.20	89.20
20-40	770.95	26.80	26.80
20-50	1205.99	41.90	41.90
40-70	1167.00	40.50	40.50
60-80	572.22	19.90	19.90
70-80	241.48	8.40	8.40
80-90	156.75	5.40	5.40
90-110	156.52	5.40	5.40
90-120	190.73	6.60	6.60
90-130	209.54	7.30	7.30
90-150	224.64	7.80	7.80
90-180	228.83	7.90	7.90
110-180	72.31	2.50	2.50
0-180	2880.4	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.82
10-20	233.58
20-30	351.11
30-40	419.84
40-50	435.04
50-60	401.22
60-70	330.74
70-80	241.48
80-90	156.75
90-100	97.35
100-110	59.18
110-120	34.21
120-130	18.81
130-140	9.97
140-150	5.12
150-160	2.59
160-170	1.23
170-180	0.37

IES INDOOR REPORT
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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	114	114	114	114	107	107	107	100	100	100	95	95	95	92
1	105	100	95	90	102	97	92	88	91	87	84	86	83	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	43	55	47	41	52	45	40	49	43	39	37
6	67	53	44	38	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	33	28	37	31	27	25
9	54	40	32	26	52	39	32	26	38	31	26	36	30	25	34	29	24	23
10	51	37	29	24	49	36	29	24	35	28	23	33	27	23	32	26	22	20

IES INDOOR REPORT
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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	18.7	20.3	19.2	20.7	21.2	17.7	19.2	18.2	19.7	20.2
	3H	20.9	22.2	21.4	22.7	23.3	19.2	20.6	19.7	21.1	21.7
	4H	21.8	23.1	22.4	23.6	24.2	19.8	21.1	20.3	21.6	22.1
	6H	22.8	24.0	23.3	24.5	25.1	20.1	21.3	20.6	21.8	22.4
	8H	23.2	24.3	23.7	24.9	25.5	20.1	21.3	20.7	21.8	22.4
	12H	23.6	24.7	24.1	25.2	25.8	20.1	21.3	20.7	21.8	22.4

UGR Viewed Endwise

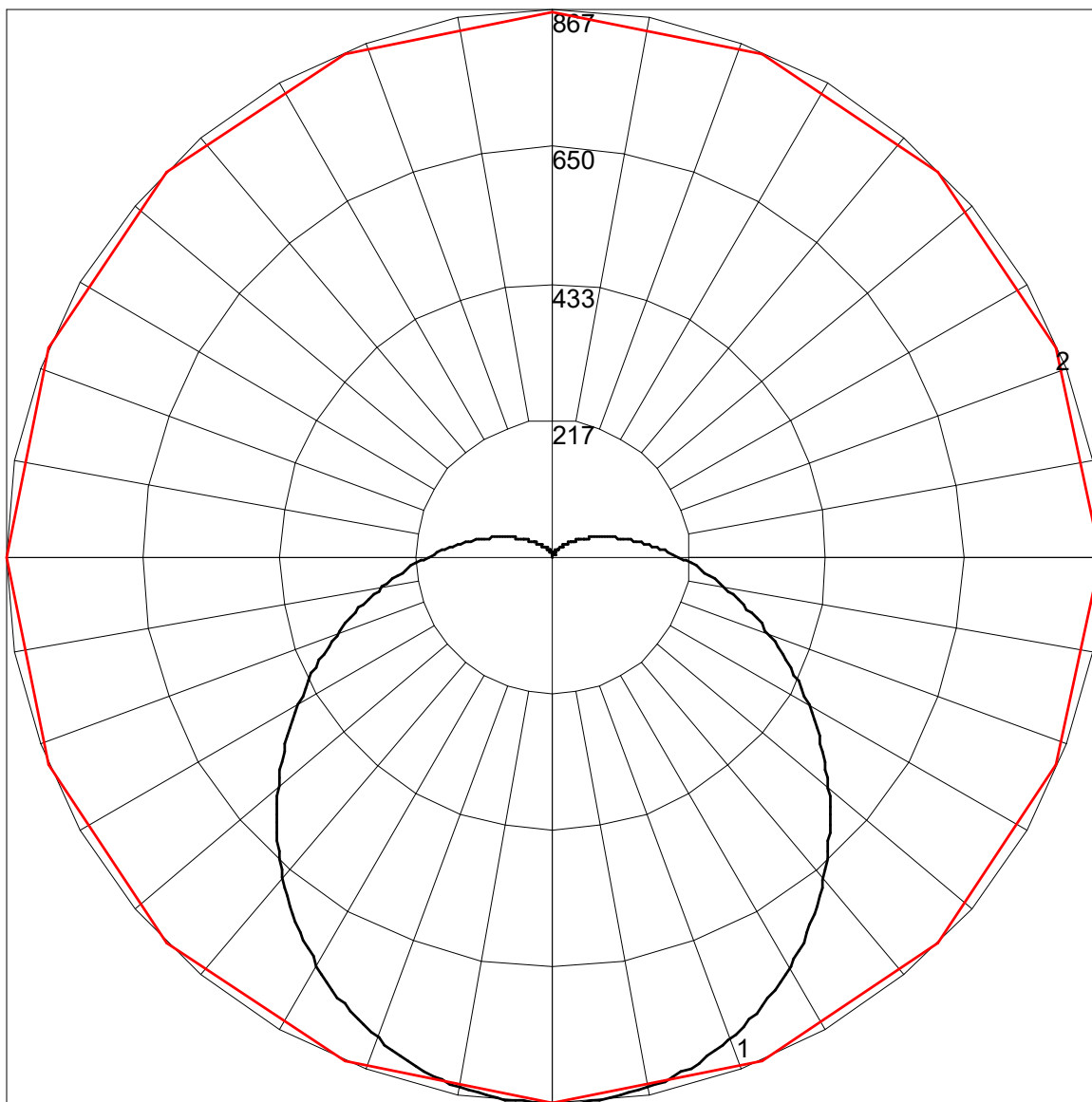
4H	2H	19.3	20.6	19.8	21.1	21.6	18.4	19.7	18.9	20.2	20.8
	3H	21.6	22.7	22.2	23.3	23.9	20.2	21.3	20.7	21.9	22.4
	4H	22.8	23.8	23.3	24.3	25.0	20.8	21.9	21.4	22.4	23.0
	6H	23.9	24.8	24.4	25.4	26.0	21.3	22.2	21.9	22.8	23.4
	8H	24.4	25.2	25.0	25.8	26.5	21.4	22.3	22.0	22.8	23.5
	12H	24.9	25.7	25.5	26.3	26.9	21.5	22.2	22.1	22.8	23.5

8H	4H	23.1	23.9	23.6	24.5	25.1	21.4	22.2	22.0	22.8	23.4
	6H	24.4	25.1	25.0	25.7	26.3	22.0	22.7	22.6	23.4	24.0
	8H	25.0	25.7	25.6	26.3	26.9	22.2	22.9	22.8	23.5	24.2
	12H	25.7	26.3	26.3	26.9	27.6	22.4	22.9	23.0	23.6	24.3

12H	4H	23.1	23.8	23.7	24.4	25.1	21.5	22.3	22.1	22.9	23.5
	6H	24.4	25.1	25.0	25.7	26.4	22.2	22.9	22.9	23.5	24.2
	8H	25.2	25.7	25.8	26.3	27.1	22.5	23.1	23.2	23.7	24.5

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 866.7 Located At Horizontal Angle = 0, Vertical Angle = 2

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)