



IES INDOOR REPORT

PHOTOMETRIC FILENAME : STR2-LED35-SO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] STR2-LED35-SO
 [TESTLAB] Intertek
 [ISSUE DATE] 7/24/20
 [MANUFAC] Prudential Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3721
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.21 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16564	16361	16798
55	16599	16411	16772
65	16134	16369	16676
75	13321	15071	16414
85	8267	7918	14633

IES INDOOR REPORT
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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>
0.0	1231.845	1231.845	1231.845	1231.845	1231.845	1231.845	1231.845	1231.845	1231.845	1231.845
2.5	1231.640	1230.615	1225.900	1232.050	1232.665	1231.640	1225.285	1229.795	1230.000	1229.795
5.0	1222.825	1224.260	1220.365	1228.770	1230.000	1227.130	1218.725	1222.415	1223.030	1222.415
7.5	1212.780	1215.445	1213.190	1223.030	1224.875	1219.955	1209.910	1211.960	1213.600	1211.960
10.0	1202.120	1205.605	1204.375	1214.830	1217.290	1210.115	1198.840	1199.865	1202.120	1199.865
12.5	1192.895	1194.740	1193.510	1204.375	1207.450	1198.020	1185.925	1186.950	1188.180	1186.950
15.0	1181.415	1181.825	1180.185	1191.870	1194.535	1184.285	1172.190	1172.600	1171.985	1172.600
17.5	1167.270	1166.245	1164.400	1176.495	1179.570	1168.910	1156.405	1155.995	1155.995	1155.995
20.0	1149.845	1148.000	1145.745	1158.865	1163.170	1151.690	1137.955	1137.545	1136.930	1137.545
22.5	1128.935	1127.500	1125.245	1139.185	1145.130	1132.625	1117.660	1116.840	1115.200	1116.840
25.0	1106.385	1104.335	1102.695	1117.865	1124.425	1110.485	1095.110	1093.265	1091.625	1093.265
27.5	1081.375	1079.120	1078.710	1094.495	1101.875	1086.705	1069.485	1067.640	1066.000	1067.640
30.0	1054.930	1053.290	1052.470	1068.665	1076.865	1060.260	1042.015	1039.555	1038.530	1039.555
32.5	1028.075	1026.435	1025.205	1040.990	1049.190	1031.150	1012.905	1010.445	1009.830	1010.445
35.0	1002.040	998.145	995.890	1010.650	1019.260	1000.810	982.360	980.105	978.465	980.105
37.5	972.520	967.190	964.525	978.260	987.690	968.625	950.380	948.535	945.870	948.535
40.0	939.310	934.185	931.520	943.615	954.275	934.390	917.375	915.325	911.840	915.325
42.5	905.075	899.540	896.055	907.535	919.220	898.515	882.525	880.475	875.965	880.475
45.0	869.815	862.845	859.155	869.610	882.115	860.590	845.010	843.165	838.245	843.165
47.5	831.890	824.715	821.025	829.430	842.755	820.820	806.265	804.010	798.475	804.010
50.0	791.095	785.355	781.870	788.020	801.755	778.590	766.495	763.420	756.450	763.420
52.5	749.890	744.150	740.870	745.175	758.910	735.335	724.880	721.190	713.605	721.190
55.0	707.045	700.690	699.050	701.715	714.425	690.850	681.010	676.705	668.505	676.705
57.5	659.895	655.590	656.000	656.615	668.505	644.930	636.320	630.375	620.740	630.375
60.0	610.080	608.235	610.285	610.490	621.765	597.985	590.400	581.790	570.105	581.790
62.5	559.650	558.215	562.930	563.545	573.385	550.835	542.430	530.540	516.805	530.540
65.0	506.350	504.710	513.730	515.780	523.365	502.865	491.795	476.010	460.430	476.010
67.5	447.310	448.335	462.480	466.990	472.730	454.280	439.520	418.200	399.955	418.200
70.0	385.605	389.090	407.950	416.765	421.685	404.465	384.580	357.725	336.610	357.725
72.5	323.080	326.360	350.345	366.335	369.205	353.830	326.360	292.945	270.190	292.945
75.0	256.045	260.145	289.665	314.675	315.495	301.965	263.630	224.065	201.720	224.065
77.5	187.165	192.495	225.090	260.350	261.375	247.025	196.800	157.030	139.605	157.030
80.0	127.920	130.995	157.645	202.540	206.230	188.600	130.175	101.680	88.765	101.680
82.5	80.770	80.975	95.940	140.835	150.265	126.280	74.415	61.705	57.605	61.705
85.0	53.505	51.250	51.250	75.235	94.710	61.705	39.975	36.900	33.210	36.900
87.5	28.905	27.060	26.240	26.855	41.205	20.705	15.580	13.325	10.045	13.325
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : STR2-LED35-SO.IES

CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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>
0.0	1231.845	1231.845	1231.845	1231.845	1231.845	1231.845	1231.845
2.5	1225.285	1231.640	1232.665	1232.050	1225.900	1230.615	1231.640
5.0	1218.725	1227.130	1230.000	1228.770	1220.365	1224.260	1222.825
7.5	1209.910	1219.955	1224.875	1223.030	1213.190	1215.445	1212.780
10.0	1198.840	1210.115	1217.290	1214.830	1204.375	1205.605	1202.120
12.5	1185.925	1198.020	1207.450	1204.375	1193.510	1194.740	1192.895
15.0	1172.190	1184.285	1194.535	1191.870	1180.185	1181.825	1181.415
17.5	1156.405	1168.910	1179.570	1176.495	1164.400	1166.245	1167.270
20.0	1137.955	1151.690	1163.170	1158.865	1145.745	1148.000	1149.845
22.5	1117.660	1132.625	1145.130	1139.185	1125.245	1127.500	1128.935
25.0	1095.110	1110.485	1124.425	1117.865	1102.695	1104.335	1106.385
27.5	1069.485	1086.705	1101.875	1094.495	1078.710	1079.120	1081.375
30.0	1042.015	1060.260	1076.865	1068.665	1052.470	1053.290	1054.930
32.5	1012.905	1031.150	1049.190	1040.990	1025.205	1026.435	1028.075
35.0	982.360	1000.810	1019.260	1010.650	995.890	998.145	1002.040
37.5	950.380	968.625	987.690	978.260	964.525	967.190	972.520
40.0	917.375	934.390	954.275	943.615	931.520	934.185	939.310
42.5	882.525	898.515	919.220	907.535	896.055	899.540	905.075
45.0	845.010	860.590	882.115	869.610	859.155	862.845	869.815
47.5	806.265	820.820	842.755	829.430	821.025	824.715	831.890
50.0	766.495	778.590	801.755	788.020	781.870	785.355	791.095
52.5	724.880	735.335	758.910	745.175	740.870	744.150	749.890
55.0	681.010	690.850	714.425	701.715	699.050	700.690	707.045
57.5	636.320	644.930	668.505	656.615	656.000	655.590	659.895
60.0	590.400	597.985	621.765	610.490	610.285	608.235	610.080
62.5	542.430	550.835	573.385	563.545	562.930	558.215	559.650
65.0	491.795	502.865	523.365	515.780	513.730	504.710	506.350
67.5	439.520	454.280	472.730	466.990	462.480	448.335	447.310
70.0	384.580	404.465	421.685	416.765	407.950	389.090	385.605
72.5	326.360	353.830	369.205	366.335	350.345	326.360	323.080
75.0	263.630	301.965	315.495	314.675	289.665	260.145	256.045
77.5	196.800	247.025	261.375	260.350	225.090	192.495	187.165
80.0	130.175	188.600	206.230	202.540	157.645	130.995	127.920

IES INDOOR REPORT
PHOTOMETRIC FILENAME : STR2-LED35-SO.IES

CANDELA TABULATION - (Cont.)

82.5	74.415	126.280	150.265	140.835	95.940	80.975	80.770
85.0	39.975	61.705	94.710	75.235	51.250	51.250	53.505
87.5	15.580	20.705	41.205	26.855	26.240	27.060	28.905
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	450.00	N.A.	12.10
0-30	959.89	N.A.	25.80
0-40	1583.94	N.A.	42.60
0-60	2866.96	N.A.	77.10
0-80	3650.76	N.A.	98.10
0-90	3720.71	N.A.	100.00
10-90	3604.4	N.A.	96.90
20-40	1133.94	N.A.	30.50
20-50	1796.97	N.A.	48.30
40-70	1777.86	N.A.	47.80
60-80	783.80	N.A.	21.10
70-80	288.96	N.A.	7.80
80-90	69.95	N.A.	1.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3720.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.31
10-20	333.70
20-30	509.89
30-40	624.05
40-50	663.03
50-60	619.99
60-70	494.84
70-80	288.96
80-90	69.95
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

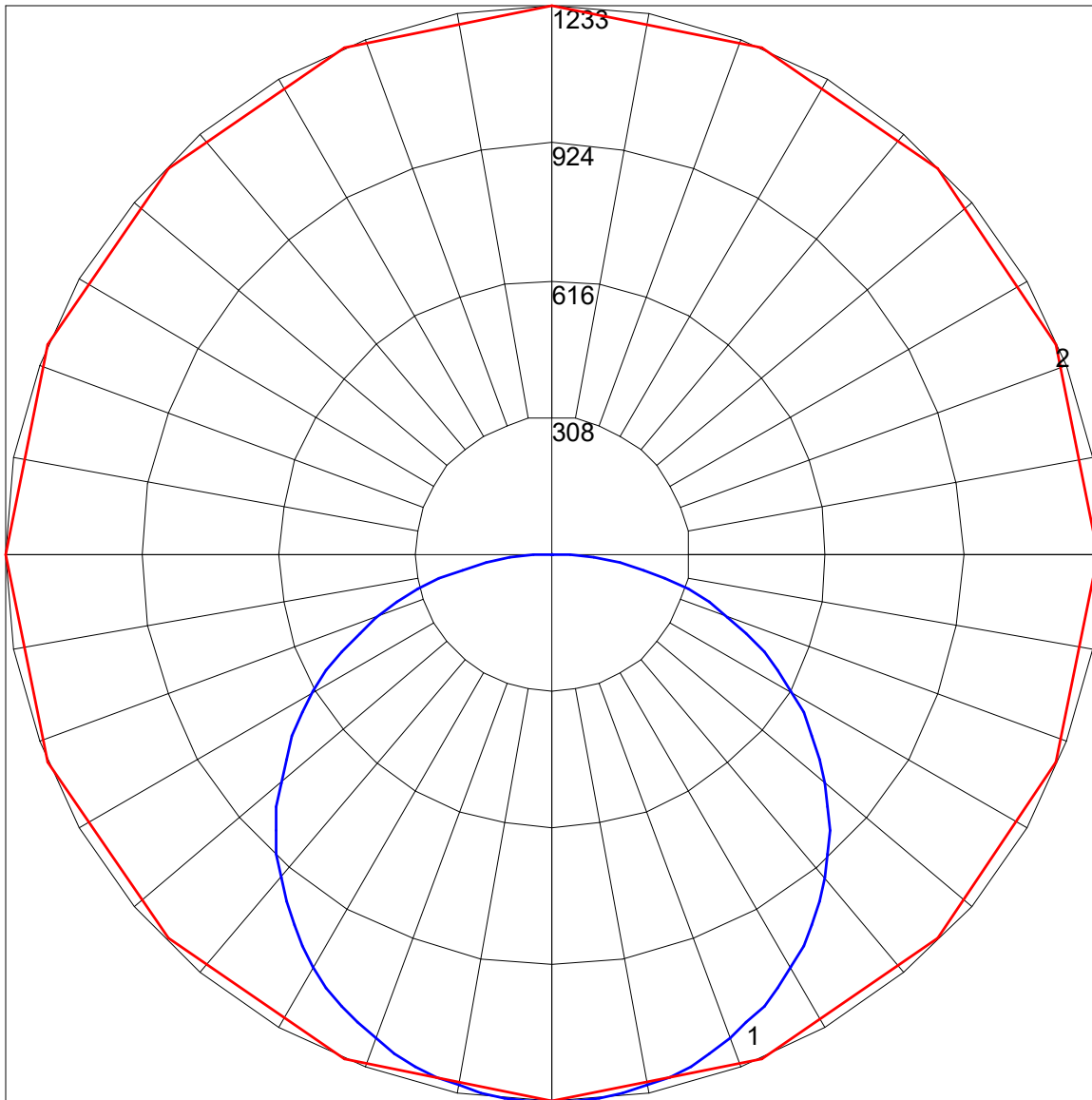
IES INDOOR REPORT
PHOTOMETRIC FILENAME : STR2-LED35-SO.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	49
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 1232.665 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)