

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S2504.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Viso - serial: n/a sensor serial: n/a
[TESTLAB] GLLED
[MANUFAC] GARDEN LIGHT LED
[ISSUEDATE] 4/8/2026
[LUMINAIRE] S2504-30K
[LUMCAT] N/A

CHARACTERISTICS

Lumens Per Lamp	652 (1 lamp)
Total Lamp Lumens	652
Luminaire Lumens	547
Total Luminaire Efficiency	84 %
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	8.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.08 m (Diameter)
Luminous Width (90-270)	0.08 m (Diameter)
Luminous Height	0.00 m



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2147	3208	7103
55	505	815	1614
65	345	385	442
75	340	296	253
85	172	150	64

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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>
0	1188.23	1188.23	1188.23	1188.23	1188.23	1188.23	1188.23	1188.23	1188.23
5	1022.45	1027.85	1039.27	1064.02	1047.58	1068.58	1076.12	1070.91	1060.36
10	796.81	815.41	854.93	891.23	908.52	919.31	943.27	934.06	933.73
15	567.21	576.15	630.97	695.14	745.86	770.84	784.76	789.29	793.19
20	307.55	325.24	384.34	463.07	533.13	576.34	602.31	613.28	614.80
25	143.40	157.16	194.57	264.07	337.54	392.57	427.92	446.07	442.82
30	72.08	77.78	97.36	138.63	196.46	251.51	285.56	299.95	305.95
35	34.76	39.49	51.98	72.42	107.37	148.01	178.63	191.15	195.15
40	16.83	19.01	24.78	35.86	55.05	79.39	99.85	108.02	110.41
45	8.12	9.21	12.13	17.93	26.86	37.75	49.86	54.45	56.11
50	3.63	4.14	5.37	8.17	11.92	16.65	21.43	24.24	25.01
55	1.55	1.76	2.50	3.30	4.95	7.29	9.06	9.85	10.10
60	1.07	1.19	1.25	1.64	2.10	2.69	3.37	3.74	3.85
65	0.78	0.75	0.87	0.78	1.00	1.23	1.24	1.41	1.37
70	0.60	0.58	0.60	0.58	0.62	0.61	0.64	0.67	0.69
75	0.47	0.43	0.41	0.43	0.35	0.34	0.34	0.31	0.43
80	0.24	0.24	0.28	0.19	0.16	0.15	0.11	0.11	0.07
85	0.08	0.07	0.07	0.04	0.03	0.01	0.01	0.01	0.01
90	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	290.60	44.60	53.20
0-30	439.50	67.40	80.40
0-40	513.40	78.70	93.90
0-60	544.87	83.60	99.70
0-80	546.52	83.80	100.00
0-90	546.59	83.80	100.00
10-90	450.17	69.00	82.40
20-40	222.80	34.20	40.80
20-50	248.35	38.10	45.40
40-70	32.71	5.00	6.00
60-80	1.65	0.30	0.30
70-80	0.41	0.10	0.10
80-90	0.07	0.00	0.00
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	546.59	83.80	100.00

Total Luminaire Efficiency = 83.80%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.42
10-20	194.18
20-30	148.90
30-40	73.90
40-50	25.55
50-60	5.92
60-70	1.24
70-80	0.41
80-90	0.07
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

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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	100	100	100	100	97	97	97	97	93	93	93	89	89	89	86	86	86	84
1	96	93	92	90	94	92	90	88	88	87	86	85	84	83	82	81	81	79
2	91	88	85	82	90	86	83	81	84	81	79	81	79	78	79	77	76	75
3	87	82	79	76	86	81	78	75	79	76	74	77	75	73	75	73	72	70
4	84	78	74	70	82	77	73	70	75	72	69	74	71	68	72	70	68	66
5	80	74	69	66	79	73	69	66	71	68	65	70	67	65	69	66	64	63
6	77	70	65	62	75	69	65	62	68	64	61	67	64	61	66	63	61	60
7	73	66	62	59	72	66	62	59	65	61	58	64	60	58	63	60	58	57
8	70	63	59	56	69	63	58	55	62	58	55	61	58	55	60	57	55	54
9	68	60	56	53	67	60	56	53	59	55	53	58	55	52	58	55	52	51
10	65	58	53	50	64	57	53	50	57	53	50	56	53	50	55	52	50	49

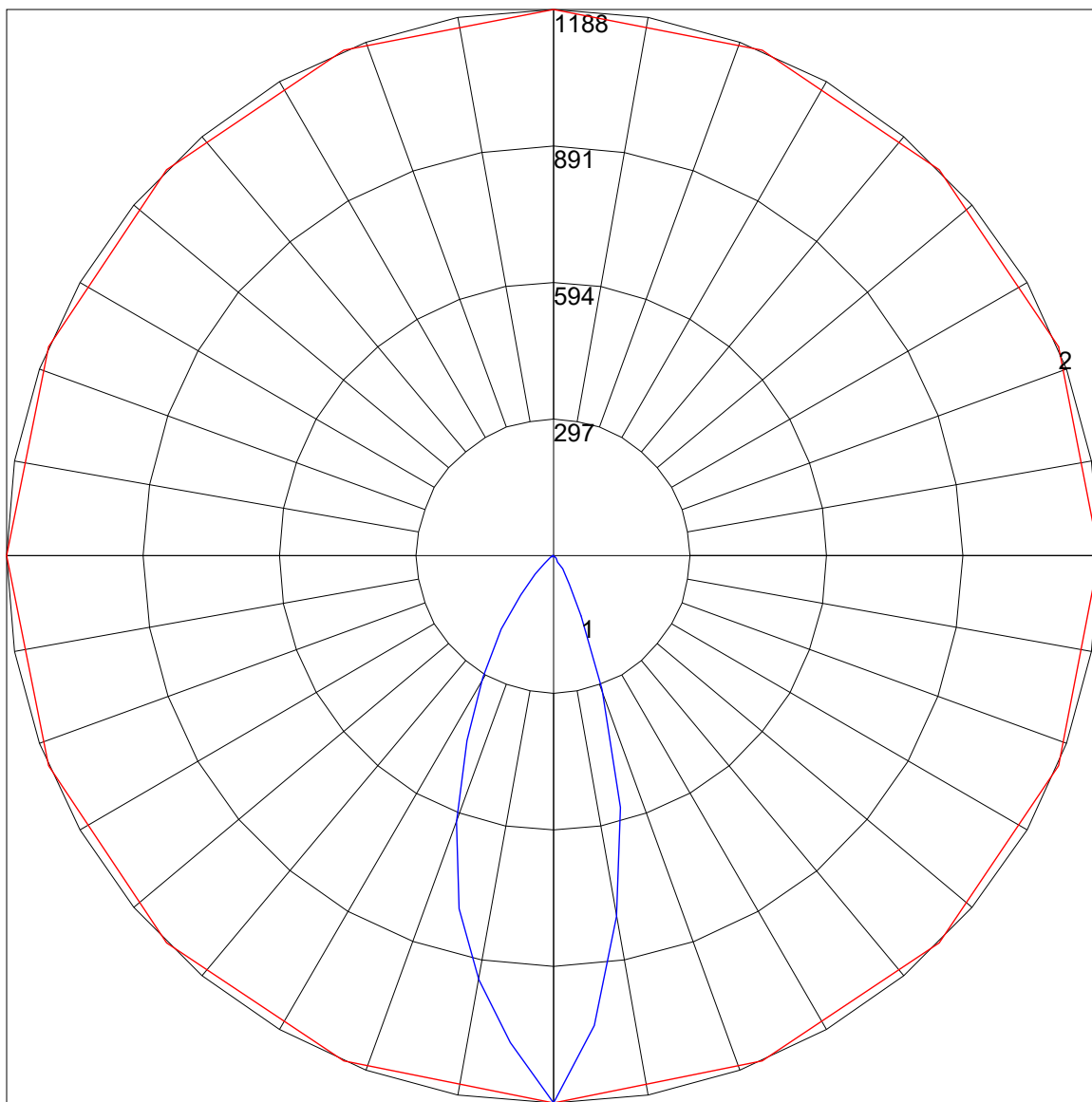
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UGR TABLE - CORRECTED

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					UGR Viewed Endwise				
X=2H	Y=2H	0.0	0.0	0.0	0.0	0.0	2.0	3.0	2.4	3.3	3.6
	3H	0.0	0.0	0.0	0.0	0.0	2.1	2.9	2.4	3.2	3.6
	4H	0.0	0.0	0.0	0.0	0.0	2.0	2.8	2.4	3.2	3.6
	6H	0.0	0.0	0.0	0.0	0.0	2.0	2.7	2.4	3.1	3.4
	8H	0.0	0.0	0.0	0.0	0.0	1.9	2.6	2.4	3.0	3.4
	12H	0.0	0.0	0.0	0.0	0.0	1.9	2.5	2.3	2.9	3.3
4H	2H	0.0	0.0	0.0	0.0	0.0	1.9	2.6	2.3	3.0	3.4
	3H	0.0	0.0	0.0	0.0	0.0	1.9	2.6	2.4	3.0	3.4
	4H	0.0	0.0	0.0	0.0	0.0	1.9	2.5	2.4	2.9	3.4
	6H	0.0	0.0	0.0	0.0	0.0	1.9	2.4	2.4	2.9	3.3
	8H	0.0	0.0	0.0	0.0	0.0	1.9	2.3	2.3	2.8	3.2
	12H	0.0	0.0	0.0	0.0	0.0	1.8	2.2	2.3	2.7	3.2
8H	4H	0.0	0.0	0.0	0.0	0.0	1.8	2.3	2.3	2.7	3.2
	6H	0.0	0.0	0.0	0.0	0.0	1.8	2.2	2.3	2.7	3.2
	8H	0.0	0.0	0.0	0.0	0.0	1.8	2.1	2.3	2.6	3.1
	12H	0.0	0.0	0.0	0.0	0.0	1.7	2.0	2.3	2.5	3.1
12H	4H	0.0	0.0	0.0	0.0	0.0	1.8	2.2	2.3	2.7	3.1
	6H	0.0	0.0	0.0	0.0	0.0	1.8	2.1	2.3	2.6	3.1
	8H	0.0	0.0	0.0	0.0	0.0	1.7	2.0	2.3	2.5	3.1

Maximum UGR = 3.6

POLAR GRAPH



Maximum Candela = 1188.23 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)