

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S2506.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] S3506-BLK-30K
[LUMCAT] N/A

CHARACTERISTICS

Lumens Per Lamp	652 (1 lamp)
Total Lamp Lumens	652
Luminaire Lumens	541
Total Luminaire Efficiency	83 %
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)	0.66
Spacing Criterion (Diagonal)	0.66
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	1928	3194	7915
55	626	789	2080
65	403	372	469
75	397	354	260
85	215	193	86

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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	1034.15	1034.15	1034.15	1034.15	1034.15	1034.15	1034.15	1034.15	1034.15
5	877.87	887.40	894.38	918.76	940.92	931.07	947.03	955.48	942.37
10	693.97	708.32	744.19	786.04	823.60	856.73	864.53	861.15	863.00
15	490.12	502.41	558.11	631.15	702.32	749.56	764.70	769.52	763.78
20	274.34	287.90	350.88	441.63	533.22	591.81	618.36	628.83	622.92
25	129.80	142.71	185.16	263.92	364.15	436.32	474.34	476.39	476.09
30	62.13	68.86	93.89	142.71	218.90	290.49	327.80	337.35	339.48
35	31.51	35.88	48.78	74.91	121.83	176.15	207.92	217.49	222.43
40	15.34	17.44	24.55	37.92	62.46	94.30	117.86	124.16	124.08
45	7.29	8.50	12.08	18.74	29.93	44.69	57.47	62.29	64.08
50	3.39	3.98	5.42	9.09	13.98	20.29	25.68	27.49	27.75
55	1.92	2.02	2.42	3.79	6.38	8.69	10.28	11.32	11.21
60	1.09	1.05	1.32	1.60	2.43	3.27	3.94	4.05	4.16
65	0.91	0.81	0.84	1.03	1.06	1.26	1.42	1.52	1.63
70	0.67	0.55	0.66	0.61	0.61	0.68	0.67	0.66	0.69
75	0.55	0.50	0.49	0.35	0.36	0.36	0.34	0.30	0.35
80	0.21	0.31	0.27	0.18	0.19	0.13	0.13	0.09	0.12
85	0.10	0.09	0.09	0.05	0.04	0.01	0.01	0.01	0.00
90	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	266.94	40.90	49.40
0-30	421.22	64.60	77.90
0-40	503.25	77.20	93.10
0-60	538.82	82.60	99.70
0-80	540.60	82.90	100.00
0-90	540.68	82.90	100.00
10-90	455.53	69.90	84.30
20-40	236.31	36.20	43.70
20-50	265.11	40.70	49.00
40-70	36.92	5.70	6.80
60-80	1.77	0.30	0.30
70-80	0.42	0.10	0.10
80-90	0.08	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	540.68	82.90	100.00

Total Luminaire Efficiency = 82.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.14
10-20	181.80
20-30	154.28
30-40	82.03
40-50	28.80
50-60	6.77
60-70	1.35
70-80	0.42
80-90	0.08
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	99	99	99	99	96	96	96	96	92	92	92	88	88	88	85	85	85	83
1	94	92	90	89	92	90	89	87	87	86	85	84	83	82	81	80	80	78
2	90	86	83	81	88	85	82	80	82	80	78	80	78	76	78	76	75	73
3	86	81	77	74	84	80	76	74	78	75	72	76	73	71	74	72	70	69
4	82	76	72	69	81	75	71	68	74	70	68	72	69	67	70	68	66	65
5	78	72	67	64	77	71	67	64	70	66	63	68	65	63	67	64	62	61
6	75	68	63	60	74	67	63	60	66	62	60	65	62	59	64	61	59	58
7	72	64	60	57	71	64	60	56	63	59	56	62	58	56	61	58	56	55
8	69	61	57	54	68	61	56	53	60	56	53	59	56	53	58	55	53	52
9	66	58	54	51	65	58	54	51	57	53	50	56	53	50	56	52	50	49
10	63	56	51	48	62	55	51	48	55	51	48	54	50	48	53	50	48	47

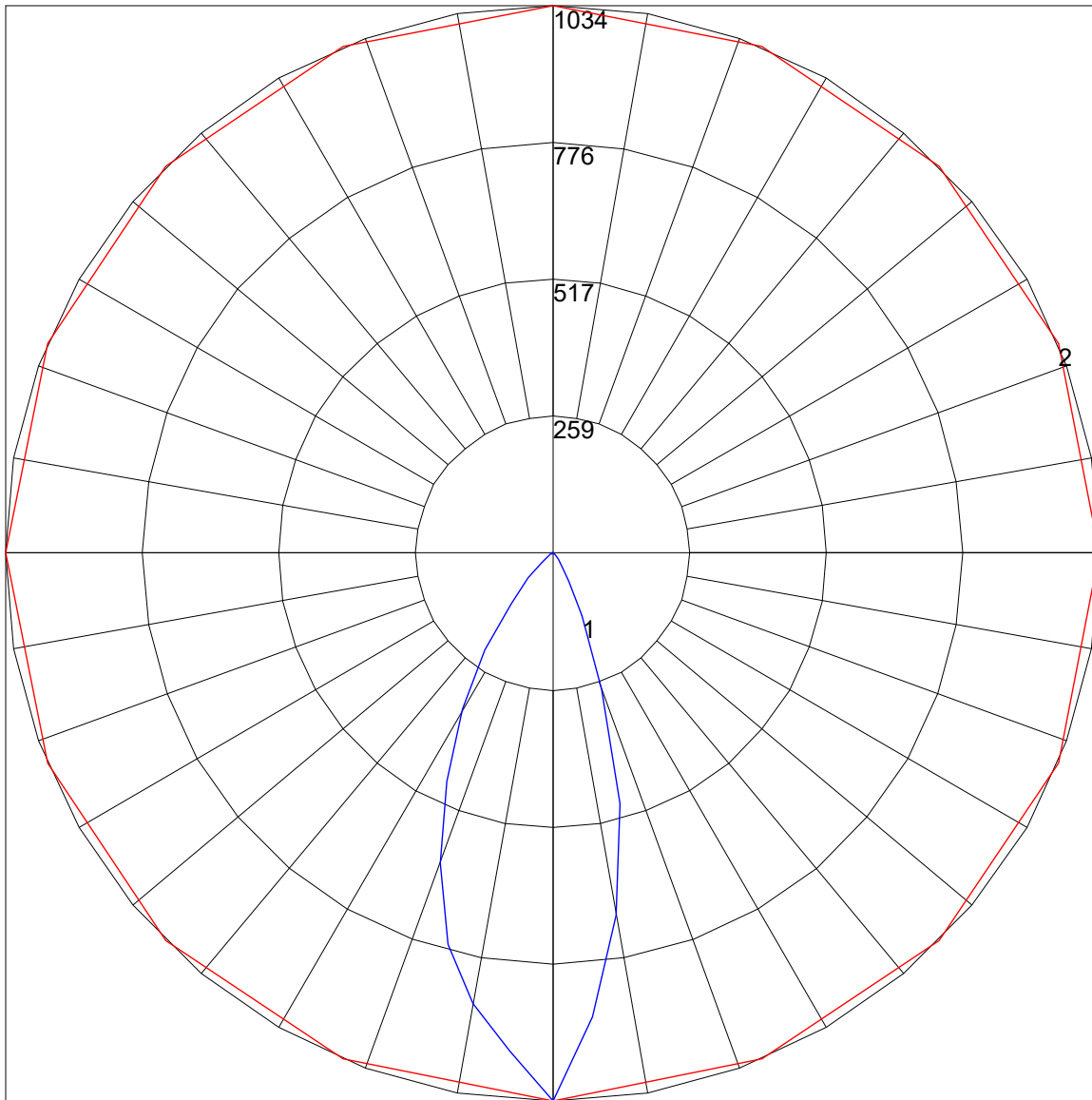
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UGR TABLE - CORRECTED

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	3.2	4.2	3.6	4.5	4.8
	3H	0.0	0.0	0.0	0.0	0.0	3.2	4.1	3.6	4.4	4.8
	4H	0.0	0.0	0.0	0.0	0.0	3.2	4.0	3.6	4.3	4.7
	6H	0.0	0.0	0.0	0.0	0.0	3.1	3.8	3.5	4.2	4.6
	8H	0.0	0.0	0.0	0.0	0.0	3.0	3.7	3.5	4.1	4.5
	12H	0.0	0.0	0.0	0.0	0.0	3.0	3.6	3.4	4.0	4.5
4H	2H	0.0	0.0	0.0	0.0	0.0	3.1	3.8	3.5	4.2	4.6
	3H	0.0	0.0	0.0	0.0	0.0	3.1	3.7	3.5	4.1	4.5
	4H	0.0	0.0	0.0	0.0	0.0	3.0	3.6	3.5	4.0	4.5
	6H	0.0	0.0	0.0	0.0	0.0	3.0	3.5	3.5	3.9	4.4
	8H	0.0	0.0	0.0	0.0	0.0	2.9	3.4	3.4	3.8	4.3
	12H	0.0	0.0	0.0	0.0	0.0	2.9	3.3	3.4	3.8	4.2
8H	4H	0.0	0.0	0.0	0.0	0.0	2.9	3.4	3.4	3.8	4.3
	6H	0.0	0.0	0.0	0.0	0.0	2.9	3.2	3.4	3.7	4.2
	8H	0.0	0.0	0.0	0.0	0.1	2.8	3.1	3.4	3.7	4.2
	12H	0.0	0.0	0.0	0.0	0.2	2.8	3.1	3.3	3.6	4.1
12H	4H	0.0	0.0	0.0	0.0	0.0	2.9	3.3	3.4	3.7	4.2
	6H	0.0	0.0	0.0	0.0	0.0	2.8	3.1	3.4	3.6	4.2
	8H	0.0	0.0	0.0	0.0	0.1	2.8	3.1	3.3	3.6	4.1

Maximum UGR = 4.8

POLAR GRAPH



Maximum Candela = 1034.15 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.)