

IES INDOOR REPORT
PHOTOMETRIC FILENAME : S3754.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] GLLED
[ISSUE DATE] November 19, 2025
[TEST DATE] November 19, 2025
[TEST] 3
[MANUFAC] GARDEN LIGHT LED
[LUMINAIRE] S3754-BLK-30K
[LAMP] XTE-CREE
[LAMPCAT] SPECIALITY LIGHT

CHARACTERISTICS

Lumens Per Lamp	890.996 (1 lamp)
Total Lamp Lumens	890.996
Luminaire Lumens	739
Total Luminaire Efficiency	83 %
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	14.12
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)	0.27 ft (Diameter)
Luminous Width (90-270)	0.27 ft (Diameter)
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2896	4327	9580
55	680	1100	2177
65	468	521	596
75	462	404	339
85	236	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	1618.07	1618.07	1618.07	1618.07	1618.07	1618.07	1618.07	1618.07	1618.07
5	1381.41	1388.71	1404.14	1437.58	1415.36	1443.74	1453.93	1446.89	1432.63
10	1076.56	1101.68	1155.08	1204.12	1227.49	1242.06	1274.44	1261.99	1261.55
15	766.35	778.43	852.49	939.19	1007.72	1041.47	1060.27	1066.39	1071.66
20	415.53	439.43	519.28	625.65	720.30	778.68	813.77	828.59	830.65
25	193.75	212.33	262.88	356.78	456.05	530.39	578.16	602.68	598.28
30	97.38	105.09	131.54	187.30	265.44	339.81	385.81	405.26	413.36
35	46.97	53.36	70.23	97.84	145.07	199.97	241.34	258.26	263.67
40	22.74	25.68	33.48	48.45	74.38	107.26	134.91	145.94	149.17
45	10.97	12.44	16.39	24.22	36.29	51.01	67.36	73.56	75.81
50	4.91	5.60	7.26	11.04	16.10	22.49	28.96	32.75	33.79
55	2.09	2.38	3.38	4.46	6.69	9.85	12.24	13.31	13.64
60	1.44	1.61	1.69	2.21	2.84	3.64	4.55	5.05	5.20
65	1.06	1.02	1.18	1.06	1.35	1.66	1.68	1.90	1.85
70	0.81	0.79	0.81	0.79	0.84	0.82	0.87	0.91	0.93
75	0.64	0.58	0.56	0.58	0.47	0.46	0.46	0.42	0.58
80	0.33	0.32	0.38	0.25	0.22	0.20	0.15	0.15	0.09
85	0.11	0.10	0.09	0.06	0.04	0.02	0.01	0.01	0.01
90	0.04	0.03	0.03	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	392.78	44.10	53.20
0-30	593.96	66.70	80.40
0-40	693.80	77.90	93.90
0-60	736.32	82.60	99.70
0-80	738.55	82.90	100.00
0-90	738.64	82.90	100.00
10-90	608.21	68.30	82.30
20-40	301.02	33.80	40.80
20-50	335.55	37.70	45.40
40-70	44.19	5.00	6.00
60-80	2.23	0.30	0.30
70-80	0.56	0.10	0.10
80-90	0.09	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	738.64	82.90	100.00

Total Luminaire Efficiency = 82.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.43
10-20	262.35
20-30	201.18
30-40	99.84
40-50	34.52
50-60	8.00
60-70	1.67
70-80	0.56
80-90	0.09
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	99	99	99	99	96	96	96	96	92	92	92	88	88	88	85	85	85	83
1	95	92	91	89	93	91	89	87	87	86	85	84	83	82	81	81	80	78
2	90	87	84	81	89	85	83	80	83	80	78	80	78	77	78	76	75	74
3	86	82	78	75	85	80	77	74	78	75	73	76	74	72	75	73	71	70
4	83	77	73	70	81	76	72	69	74	71	68	73	70	68	71	69	67	66
5	79	73	68	65	78	72	68	65	71	67	64	69	66	64	68	65	63	62
6	76	69	65	61	75	68	64	61	67	64	61	66	63	60	65	62	60	59
7	73	66	61	58	71	65	61	58	64	60	58	63	60	57	62	59	57	56
8	70	62	58	55	69	62	58	55	61	57	55	60	57	54	60	57	54	53
9	67	60	55	52	66	59	55	52	58	55	52	58	54	52	57	54	52	51
10	64	57	53	50	63	57	53	50	56	52	50	55	52	50	55	52	49	48

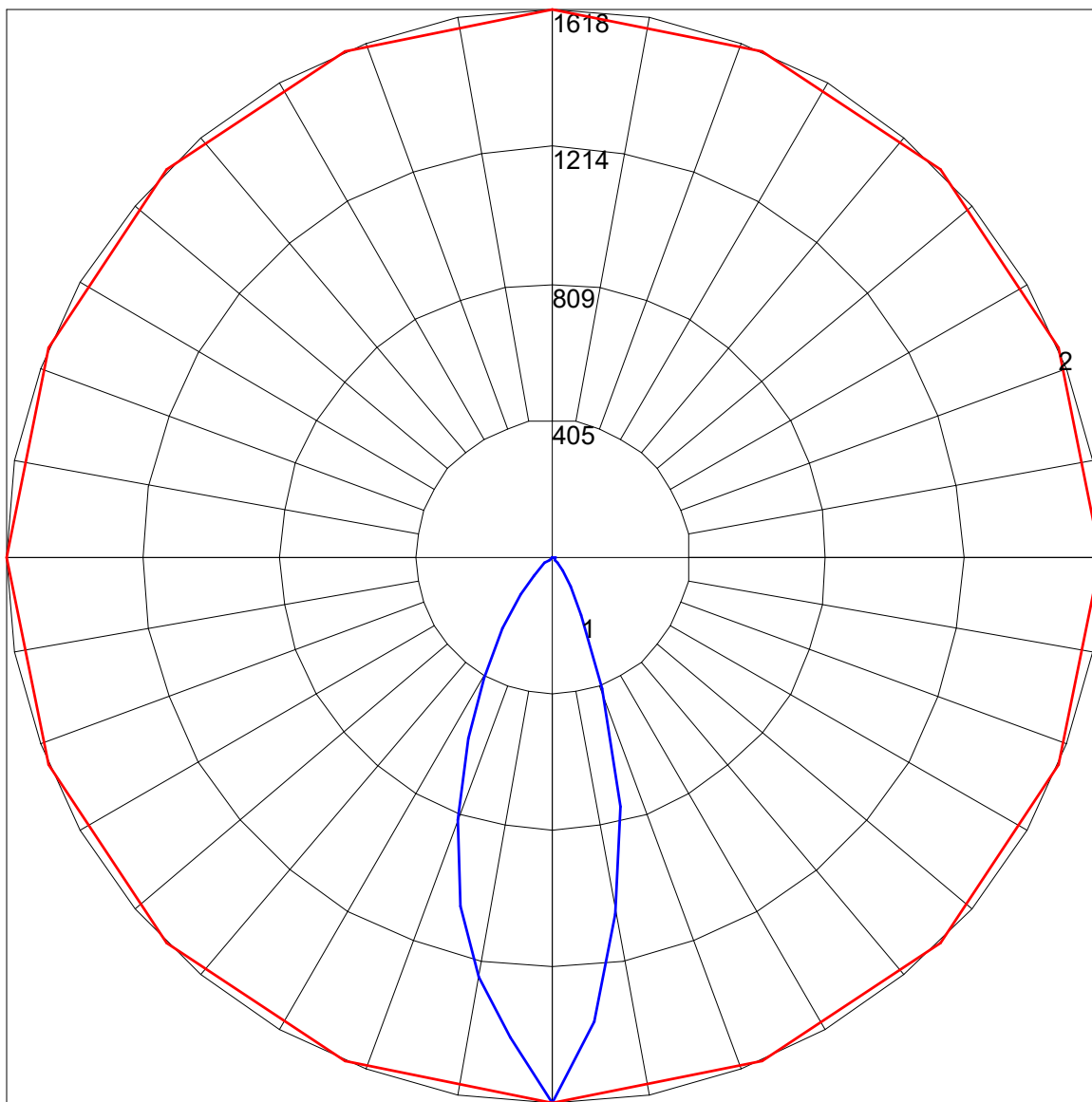
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UGR TABLE - CORRECTED

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	3.1	4.0	3.4	4.3	4.7
	3H	0.0	0.0	0.0	0.0	0.0	3.1	4.0	3.5	4.3	4.7
	4H	0.0	0.0	0.0	0.0	0.0	3.1	3.9	3.5	4.2	4.6
	6H	0.0	0.0	0.0	0.0	0.0	3.0	3.7	3.4	4.1	4.5
	8H	0.0	0.0	0.0	0.0	0.0	3.0	3.6	3.4	4.0	4.5
	12H	0.0	0.0	0.0	0.0	0.0	2.9	3.6	3.3	3.9	4.4
4H	2H	0.0	0.0	0.0	0.0	0.0	2.9	3.7	3.3	4.0	4.4
	3H	0.0	0.0	0.0	0.0	0.0	3.0	3.6	3.4	4.1	4.5
	4H	0.0	0.0	0.0	0.0	0.0	3.0	3.6	3.4	4.0	4.5
	6H	0.0	0.0	0.0	0.0	0.3	3.0	3.5	3.5	3.9	4.4
	8H	0.0	0.0	0.0	0.0	0.3	2.9	3.4	3.4	3.8	4.3
	12H	0.0	0.0	0.0	0.0	0.3	2.9	3.3	3.4	3.7	4.2
8H	4H	0.0	0.0	0.0	0.0	0.0	2.9	3.3	3.4	3.8	4.3
	6H	0.0	0.0	0.0	0.0	0.4	2.9	3.2	3.4	3.7	4.2
	8H	0.0	0.0	0.0	0.1	0.6	2.8	3.2	3.4	3.7	4.2
	12H	0.0	0.0	0.0	0.1	0.7	2.8	3.1	3.3	3.6	4.1
12H	4H	0.0	0.0	0.0	0.0	0.0	2.8	3.2	3.3	3.7	4.2
	6H	0.0	0.0	0.0	0.0	0.4	2.8	3.1	3.4	3.6	4.2
	8H	0.0	0.0	0.0	0.0	0.6	2.8	3.1	3.3	3.6	4.2

Maximum UGR = 4.7

POLAR GRAPH



Maximum Candela = 1618.07 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.)