

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S3756.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TESTLAB] GLLED  
[ISSUE DATE] November 19, 2025  
[TEST DATE] November 19, 2025  
[TEST] 4  
[MANUFAC] GARDEN LIGHT LED  
[LUMINAIRE] S3756-BLK-30K  
[LAMP] XTE-CREE  
[LAMPCAT] SPECIALITY LIGHT

**CHARACTERISTICS**

Lumens Per Lamp	900.996 (1 lamp)
Total Lamp Lumens	900.996
Luminaire Lumens	732
Total Luminaire Efficiency	81 %
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)	0.66
Spacing Criterion (Diagonal)	0.66
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	2606	4316	10697
55	846	1064	2812
65	543	504	632
75	541	483	353
85	278	257	129

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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>
<b>0</b>	1408.48	1408.48	1408.48	1408.48	1408.48	1408.48	1408.48	1408.48	1408.48
<b>5</b>	1188.49	1201.39	1210.85	1243.85	1273.86	1260.52	1282.12	1293.57	1275.82
<b>10</b>	939.52	958.95	1007.51	1064.17	1115.02	1159.87	1170.44	1165.86	1168.36
<b>15</b>	663.55	680.18	755.59	854.47	950.83	1014.79	1035.28	1041.80	1034.03
<b>20</b>	371.41	389.77	475.03	597.90	721.89	801.22	837.16	851.34	843.34
<b>25</b>	175.73	193.20	250.68	357.30	493.00	590.71	642.18	644.95	644.55
<b>30</b>	84.11	93.22	127.11	193.20	296.35	393.27	443.79	456.72	459.60
<b>35</b>	42.66	48.57	66.04	101.41	164.94	238.48	281.49	294.45	301.14
<b>40</b>	20.77	23.61	33.23	51.34	84.56	127.67	159.56	168.09	167.98
<b>45</b>	9.87	11.51	16.35	25.37	40.52	60.50	77.81	84.33	86.76
<b>50</b>	4.59	5.39	7.34	12.30	18.92	27.47	34.77	37.22	37.57
<b>55</b>	2.60	2.73	3.27	5.13	8.64	11.77	13.92	15.32	15.18
<b>60</b>	1.48	1.42	1.79	2.17	3.29	4.43	5.33	5.48	5.63
<b>65</b>	1.23	1.09	1.14	1.39	1.43	1.71	1.92	2.06	2.20
<b>70</b>	0.91	0.75	0.89	0.83	0.82	0.92	0.91	0.90	0.94
<b>75</b>	0.75	0.68	0.67	0.48	0.49	0.49	0.46	0.40	0.47
<b>80</b>	0.29	0.42	0.36	0.25	0.26	0.18	0.17	0.12	0.16
<b>85</b>	0.13	0.12	0.12	0.07	0.06	0.02	0.02	0.01	0.00
<b>90</b>	0.04	0.03	0.03	0.02	0.01	0.01	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	361.50	40.10	49.40
0-30	570.37	63.30	77.90
0-40	681.42	75.60	93.10
0-60	729.58	81.00	99.70
0-80	731.98	81.20	100.00
0-90	732.09	81.30	100.00
10-90	616.72	68.40	84.20
20-40	319.92	35.50	43.70
20-50	358.91	39.80	49.00
40-70	49.99	5.50	6.80
60-80	2.40	0.30	0.30
70-80	0.58	0.10	0.10
80-90	0.10	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	732.09	81.30	100.00

Total Luminaire Efficiency = 81.30%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	115.37
10-20	246.13
20-30	208.87
30-40	111.05
40-50	38.99
50-60	9.17
60-70	1.83
70-80	0.58
80-90	0.10
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	97	97	97	97	94	94	94	94	90	90	90	86	86	86	83	83	83	81
1	93	90	89	87	91	89	87	85	85	84	83	82	81	80	80	79	78	77
2	88	85	82	79	87	83	80	78	81	78	76	78	76	75	76	75	73	72
3	84	79	76	73	83	78	75	72	76	73	71	74	72	70	72	70	69	68
4	80	75	71	67	79	74	70	67	72	69	66	71	68	65	69	67	65	64
5	77	71	66	63	76	70	66	63	68	65	62	67	64	62	66	63	61	60
6	73	67	62	59	72	66	62	59	65	61	58	64	60	58	63	60	58	56
7	70	63	59	56	69	63	58	55	62	58	55	61	57	55	60	57	54	53
8	67	60	56	52	66	60	55	52	59	55	52	58	54	52	57	54	52	51
9	64	57	53	50	63	57	52	50	56	52	49	55	52	49	55	51	49	48
10	62	54	50	47	61	54	50	47	53	50	47	53	49	47	52	49	47	46

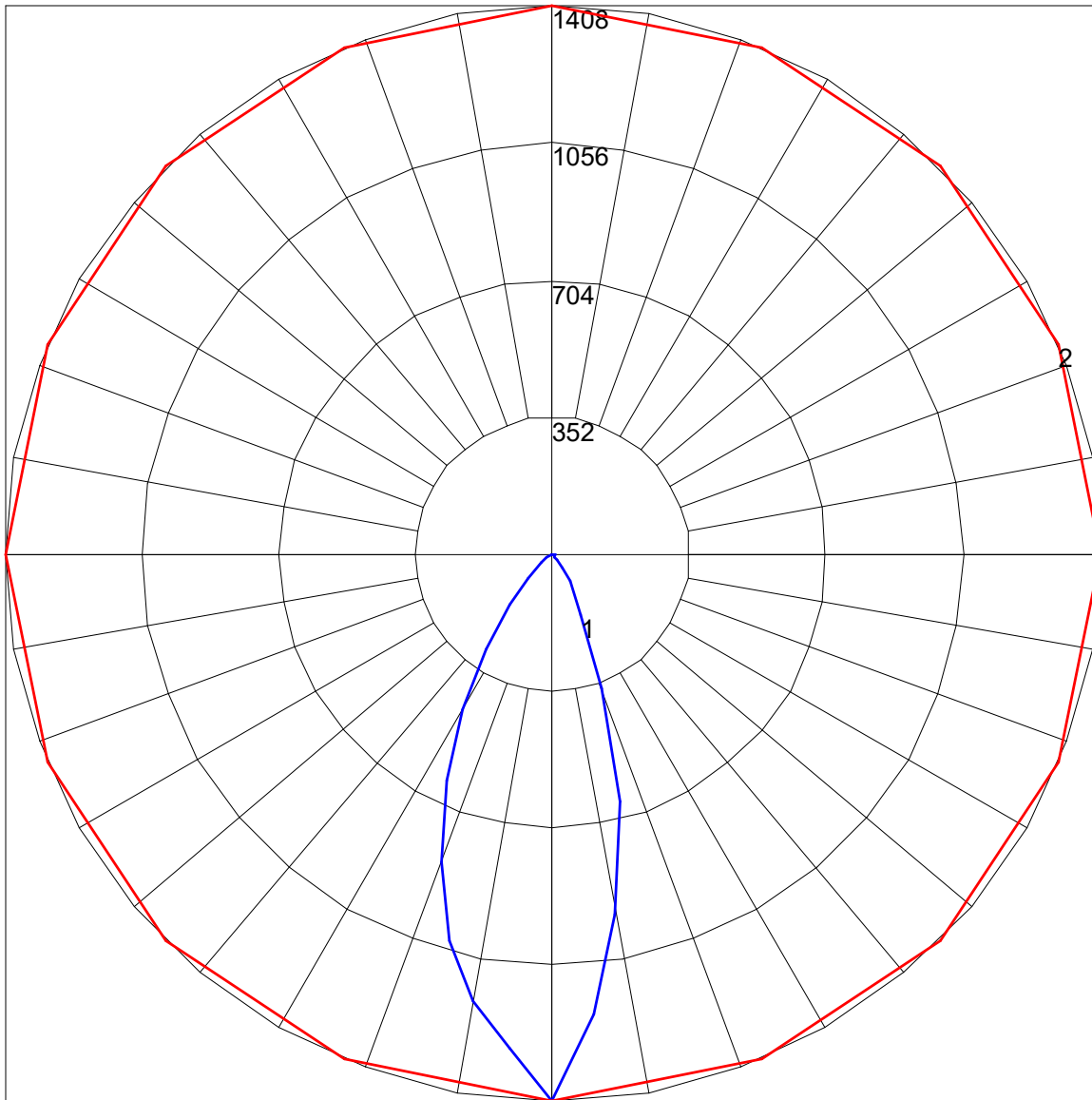
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**UGR TABLE - CORRECTED**

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	4.3	5.2	4.6	5.5	5.9
	3H	0.0	0.0	0.0	0.0	0.0	4.3	5.1	4.6	5.4	5.8
	4H	0.0	0.0	0.0	0.0	0.0	4.2	5.0	4.6	5.4	5.7
	6H	0.0	0.0	0.0	0.0	0.1	4.1	4.9	4.6	5.2	5.6
	8H	0.0	0.0	0.0	0.0	0.1	4.1	4.8	4.5	5.2	5.6
	12H	0.0	0.0	0.0	0.0	0.1	4.1	4.7	4.5	5.1	5.5
4H	2H	0.0	0.0	0.0	0.0	0.0	4.1	4.9	4.5	5.2	5.6
	3H	0.0	0.0	0.0	0.0	0.0	4.1	4.8	4.5	5.2	5.6
	4H	0.0	0.0	0.0	0.0	0.3	4.1	4.7	4.6	5.1	5.5
	6H	0.0	0.0	0.0	0.3	0.8	4.1	4.5	4.5	5.0	5.5
	8H	0.0	0.0	0.0	0.3	0.8	4.0	4.4	4.5	4.9	5.4
	12H	0.0	0.0	0.0	0.3	0.8	3.9	4.3	4.4	4.8	5.3
8H	4H	0.0	0.0	0.0	0.0	0.4	4.0	4.4	4.5	4.9	5.3
	6H	0.0	0.0	0.1	0.5	1.0	3.9	4.3	4.4	4.8	5.3
	8H	0.0	0.1	0.3	0.6	1.1	3.9	4.2	4.4	4.7	5.2
	12H	0.0	0.2	0.4	0.7	1.2	3.8	4.1	4.4	4.6	5.2
12H	4H	0.0	0.0	0.0	0.0	0.3	3.9	4.3	4.4	4.8	5.3
	6H	0.0	0.0	0.2	0.4	1.0	3.9	4.2	4.4	4.7	5.2
	8H	0.0	0.1	0.4	0.6	1.2	3.8	4.1	4.4	4.6	5.2

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 1408.48 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.)