

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MWW20F-SSA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] GLLLED
[ISSUE DATE] November 19, 2025
[TEST DATE] November 19, 2025
[TEST] 1
[MANUFAC] GARDEN LIGHT LED
[LUMINAIRE] MWW20F-SSA-30K
[LAMP] XTE-CREE
[LAMPCAT] WALL WASHER

CHARACTERISTICS

Lumens Per Lamp	329.999 (1 lamp)
Total Lamp Lumens	329.999
Luminaire Lumens	270
Total Luminaire Efficiency	82 %
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	4.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	99.35	99.35	99.35	99.35	99.35	99.35	99.35	99.35	99.35
5	101.02	101.07	99.41	101.30	100.12	99.26	98.67	102.35	98.83
10	99.32	99.72	100.15	100.18	100.46	100.46	99.25	98.10	98.36
15	98.37	99.15	98.20	98.62	97.37	98.36	97.61	98.63	100.27
20	94.52	96.80	96.58	96.33	95.44	96.47	97.66	95.02	96.33
25	93.86	94.21	93.70	92.73	93.57	93.49	91.83	92.19	92.67
30	91.52	91.04	90.73	90.13	90.02	89.84	89.60	88.08	88.89
35	92.39	89.26	85.84	85.19	86.12	85.14	84.73	82.50	82.67
40	106.91	96.62	83.31	81.57	80.09	78.58	79.13	73.19	59.85
45	116.07	108.04	82.66	74.01	75.73	74.56	69.77	25.01	5.71
50	109.10	108.23	86.68	69.20	74.77	69.95	40.42	3.21	4.01
55	95.56	99.04	87.51	62.63	42.09	39.50	12.30	6.82	11.31
60	51.86	66.56	71.39	43.45	36.22	18.43	5.43	16.45	20.12
65	37.28	34.92	41.15	25.26	29.95	15.05	8.52	18.33	15.66
70	29.42	27.70	16.28	14.58	21.55	9.10	7.51	6.07	3.82
75	18.57	16.94	10.35	9.70	10.97	3.33	2.73	1.04	0.75
80	5.88	5.51	5.56	4.26	3.41	0.89	0.31	0.05	0.01
85	1.52	1.51	1.54	1.13	0.61	0.14	0.01	0.00	0.00
90	0.43	0.41	0.49	0.35	0.09	0.01	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	37.33	11.30	13.80
0-30	80.35	24.30	29.70
0-40	134.22	40.70	49.70
0-60	234.82	71.20	86.90
0-80	268.87	81.50	99.50
0-90	270.09	81.80	100.00
10-90	260.55	79.00	96.50
20-40	96.90	29.40	35.90
20-50	152.56	46.20	56.50
40-70	125.70	38.10	46.50
60-80	34.04	10.30	12.60
70-80	8.95	2.70	3.30
80-90	1.22	0.40	0.50
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	270.09	81.80	100.00

Total Luminaire Efficiency = 81.80%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	9.54
10-20	27.79
20-30	43.03
30-40	53.87
40-50	55.66
50-60	44.94
60-70	25.10
70-80	8.95
80-90	1.22
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

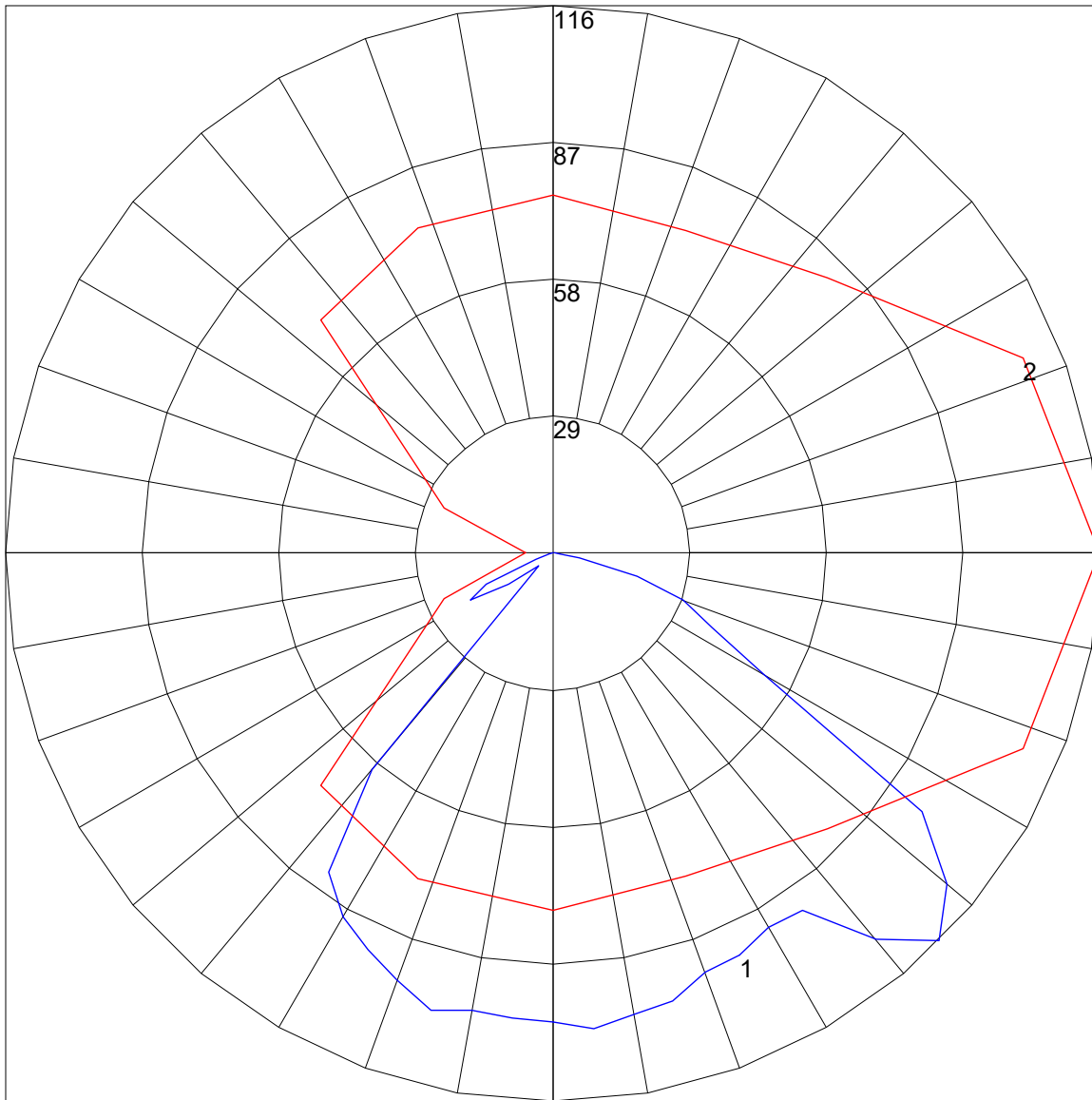
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	91	91	91	87	87	87	84	84	84	82
1	90	87	84	81	88	85	82	80	81	79	77	78	76	75	75	74	73	71
2	83	77	71	67	81	75	70	66	72	68	65	70	66	63	67	64	62	60
3	76	68	62	57	74	66	61	56	64	59	55	62	58	54	60	56	53	52
4	70	60	54	48	68	59	53	48	57	52	47	55	51	47	54	50	46	44
5	64	54	47	42	62	53	47	42	51	46	41	50	45	41	48	44	40	39
6	59	49	42	37	58	48	41	36	46	41	36	45	40	36	44	39	36	34
7	55	44	37	32	53	44	37	32	42	36	32	41	36	32	40	35	32	30
8	51	40	34	29	50	40	33	29	39	33	29	38	32	28	37	32	28	27
9	48	37	30	26	47	36	30	26	36	30	26	35	29	26	34	29	26	24
10	45	34	28	24	44	34	28	23	33	27	23	32	27	23	31	27	23	22

POLAR GRAPH



Maximum Candela = 116.07 Located At Horizontal Angle = 0, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)