

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MWW20F-BLK.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] GLLLED
[ISSUE DATE] November 19, 2025
[TEST DATE] November 19, 2025
[TEST] 2
[MANUFAC] GARDEN LIGHT LED
[LUMINAIRE] MWW20F-BLK-30K
[LAMP] XTE-CREE
[LAMPCAT] WALL WASHER

CHARACTERISTICS

Lumens Per Lamp	329.999 (1 lamp)
Total Lamp Lumens	329.999
Luminaire Lumens	211
Total Luminaire Efficiency	64 %
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	4.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.13 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20930	19445	25683
55	15944	15222	2392
65	692	6391	759
75	269	37	349
85	8	7	6

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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	101.13	101.13	101.13	101.13	101.13	101.13	101.13	101.13	101.13
5	99.18	101.11	99.99	100.92	97.67	99.92	100.51	100.22	99.65
10	99.92	99.11	98.83	98.60	99.09	98.82	97.34	100.47	100.20
15	97.40	97.58	96.84	97.09	96.39	97.80	98.64	96.50	98.49
20	94.53	96.10	94.46	96.10	95.63	95.46	94.62	93.62	93.71
25	91.89	91.41	91.79	91.45	93.29	93.40	91.46	91.03	91.89
30	88.02	88.25	89.15	87.98	88.68	89.04	88.34	87.44	88.50
35	82.96	84.70	83.94	84.21	84.08	84.73	82.85	82.18	81.40
40	78.38	78.37	78.44	79.06	77.92	76.72	75.86	72.77	58.70
45	71.79	72.35	71.08	70.88	70.50	70.01	67.30	23.28	3.82
50	64.87	64.24	64.22	63.11	55.37	59.67	39.29	0.86	0.53
55	53.85	54.92	55.39	47.66	6.18	21.23	9.97	0.59	0.65
60	12.34	26.89	44.15	24.90	2.06	1.07	0.32	0.74	0.88
65	2.23	2.83	22.44	8.97	1.78	0.83	0.16	0.85	0.86
70	1.50	1.47	2.36	1.05	1.36	0.55	0.08	0.38	0.35
75	0.80	0.73	0.12	0.45	0.71	0.24	0.04	0.06	0.05
80	0.20	0.18	0.04	0.19	0.19	0.05	0.01	0.00	0.00
85	0.02	0.02	0.02	0.05	0.01	0.00	0.00	0.00	0.00
90	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00

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Zone	Lumens	%Lamp	%Fixt
0-20	37.03	11.20	17.60
0-30	79.46	24.10	37.70
0-40	131.41	39.80	62.30
0-60	204.36	61.90	96.90
0-80	210.79	63.90	100.00
0-90	210.82	63.90	100.00
10-90	201.30	61.00	95.50
20-40	94.39	28.60	44.80
20-50	141.42	42.90	67.10
40-70	78.90	23.90	37.40
60-80	6.42	1.90	3.00
70-80	0.48	0.10	0.20
80-90	0.03	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	210.82	63.90	100.00

Total Luminaire Efficiency = 63.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	9.52
10-20	27.50
20-30	42.44
30-40	51.95
40-50	47.04
50-60	25.91
60-70	5.95
70-80	0.48
80-90	0.03
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	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64
1	71	69	67	65	70	68	66	64	65	64	62	63	62	60	60	60	59	57
2	66	62	59	56	65	61	58	56	59	57	54	57	55	53	55	54	52	51
3	62	56	52	49	60	55	51	48	53	50	47	52	49	47	50	48	46	45
4	57	51	46	43	56	50	46	42	48	45	42	47	44	41	46	43	41	40
5	53	46	41	38	52	45	41	37	44	40	37	43	39	37	42	39	36	35
6	49	42	37	33	48	41	37	33	40	36	33	39	36	33	38	35	32	31
7	46	38	33	30	45	38	33	30	37	33	30	36	32	29	35	32	29	28
8	43	35	30	27	42	35	30	27	34	30	27	33	29	27	32	29	26	25
9	40	32	28	24	39	32	27	24	31	27	24	31	27	24	30	27	24	23
10	38	30	25	22	37	30	25	22	29	25	22	28	25	22	28	24	22	21

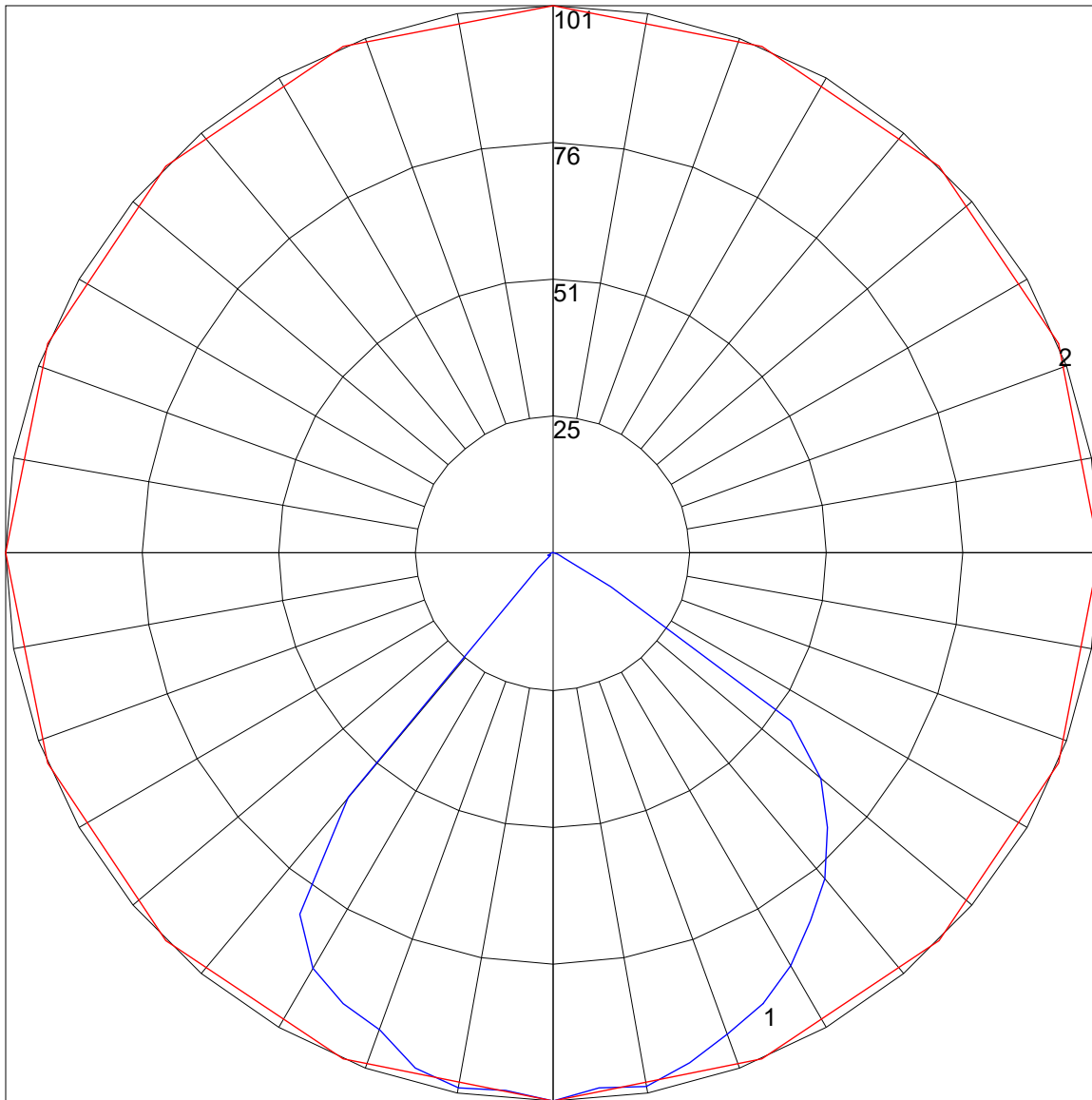
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UGR TABLE - CORRECTED

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	21.5	22.9	21.9	23.2	23.5	17.1	18.5	17.5	18.8	19.2
	3H	21.4	22.6	21.8	23.0	23.3	17.0	18.3	17.4	18.6	19.0
	4H	21.3	22.5	21.7	22.8	23.2	17.0	18.1	17.4	18.5	18.8
	6H	21.3	22.3	21.7	22.7	23.1	16.9	17.9	17.3	18.3	18.7
	8H	21.2	22.2	21.7	22.6	23.0	16.9	17.8	17.3	18.2	18.6
	12H	21.2	22.1	21.6	22.5	22.9	16.8	17.8	17.3	18.1	18.6
4H	2H	21.7	22.9	22.1	23.2	23.6	17.6	18.8	18.0	19.1	19.5
	3H	21.6	22.5	22.0	22.9	23.3	17.5	18.5	17.9	18.9	19.3
	4H	21.5	22.4	22.0	22.8	23.2	17.5	18.3	17.9	18.7	19.1
	6H	21.5	22.2	21.9	22.6	23.1	17.4	18.1	17.8	18.5	19.0
	8H	21.4	22.1	21.9	22.5	23.0	17.3	18.0	17.8	18.4	18.9
	12H	21.4	21.9	21.9	22.4	22.9	17.3	17.9	17.8	18.3	18.8
8H	4H	21.4	22.1	21.9	22.5	23.0	17.3	18.0	17.8	18.4	18.9
	6H	21.3	21.8	21.8	22.3	22.8	17.2	17.8	17.7	18.3	18.7
	8H	21.2	21.7	21.8	22.2	22.7	17.2	17.6	17.7	18.2	18.7
	12H	21.2	21.6	21.7	22.1	22.7	17.1	17.5	17.6	18.0	18.6
12H	4H	21.4	21.9	21.9	22.4	22.9	17.3	17.9	17.8	18.3	18.8
	6H	21.3	21.7	21.8	22.2	22.7	17.2	17.7	17.7	18.1	18.7
	8H	21.2	21.6	21.7	22.1	22.7	17.1	17.5	17.6	18.0	18.6

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 101.13 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.)