



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_30W_5000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 20530
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 2025-09-09
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2x2' ULTRA THIN SEAMLESS FLAT PANEL LIGHT
[MORE] .39" ALUMINUM FRAME w/DIFFUSE LENS
[MORE] 0-10V LED DRIVER
[LUMCAT] BP-22-LS-8CS-DIM-UNV_30W_5000K_
[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3623
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	30.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.80 ft
Luminous Width (90-270)	1.80 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4030	3991	4003
55	3846	3789	3818
65	3536	3510	3465
75	3013	2918	2908
85	1752	1564	1596

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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>
0	1275.461	1275.461	1275.461	1275.461	1275.461
5	1276.284	1272.990	1270.520	1268.873	1267.227
10	1259.816	1256.522	1254.052	1250.758	1249.935
15	1233.467	1230.173	1226.056	1224.409	1223.586
20	1195.590	1193.120	1189.826	1186.532	1186.532
25	1148.656	1146.185	1142.068	1140.422	1140.422
30	1090.194	1084.430	1086.077	1081.960	1081.960
35	1018.557	1013.617	1014.440	1013.617	1013.617
40	943.627	941.157	941.157	939.510	937.863
45	860.462	860.462	852.228	852.228	854.699
50	764.124	764.947	761.653	756.713	758.360
55	666.138	661.197	656.257	661.197	661.197
60	556.625	555.801	553.331	552.507	551.684
65	451.228	448.758	447.935	447.935	442.171
70	339.245	341.715	337.598	332.657	332.657
75	235.495	229.731	228.084	228.084	227.261
80	128.452	130.922	128.452	128.452	125.982
85	46.111	46.111	41.170	41.170	41.994
90	0.000	0.000	0.823	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	467.19	N.A.	12.90
0-30	993.88	N.A.	27.40
0-40	1629.17	N.A.	45.00
0-60	2878.32	N.A.	79.40
0-80	3564.41	N.A.	98.40
0-90	3622.98	N.A.	100.00
10-90	3502.2	N.A.	96.70
20-40	1161.98	N.A.	32.10
20-50	1821.26	N.A.	50.30
40-70	1691.4	N.A.	46.70
60-80	686.09	N.A.	18.90
70-80	243.83	N.A.	6.70
80-90	58.57	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3622.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	120.77
10-20	346.42
20-30	526.68
30-40	635.29
40-50	659.28
50-60	589.86
60-70	442.25
70-80	243.83
80-90	58.57
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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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

X=2H	Y=2H	16.9	18.5	17.2	18.8	19.1	UGR Viewed Endwise	16.8	18.5	17.2	18.8	19.1
	3H	18.6	20.1	19.0	20.4	20.8		18.6	20.0	18.9	20.4	20.7
	4H	19.3	20.7	19.7	21.0	21.4		19.2	20.6	19.6	20.9	21.3
	6H	19.7	21.0	20.1	21.3	21.7		19.6	20.9	20.0	21.2	21.6
	8H	19.8	21.0	20.2	21.4	21.8		19.7	20.9	20.1	21.3	21.7
	12H	19.9	21.0	20.3	21.4	21.9		19.7	20.9	20.2	21.3	21.7

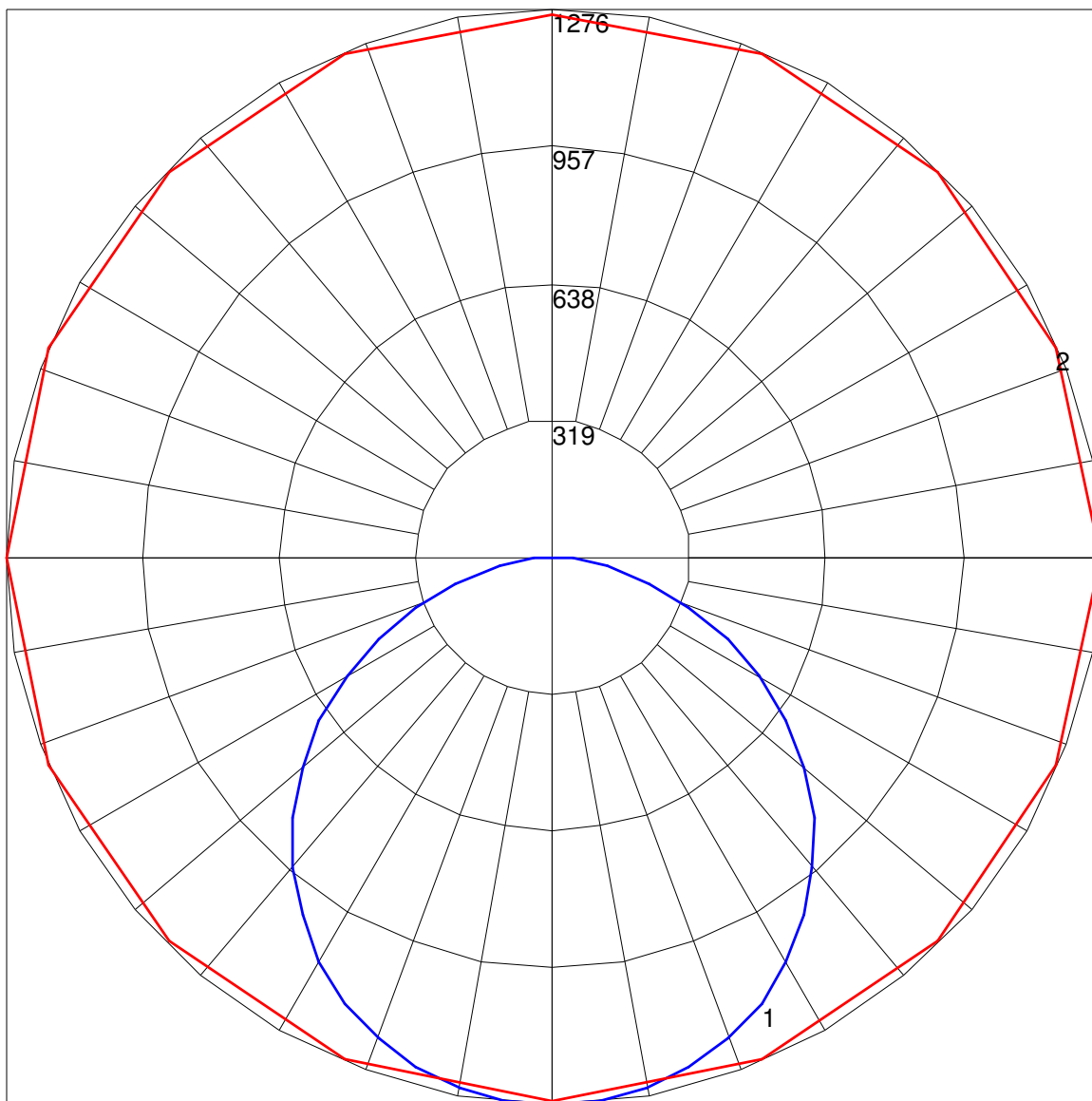
4H	2H	17.5	18.9	17.9	19.2	19.6	17.5	18.9	17.9	19.2	19.6
	3H	19.5	20.6	19.9	21.0	21.4	19.4	20.6	19.8	21.0	21.4
	4H	20.2	21.3	20.6	21.7	22.1	20.1	21.2	20.6	21.6	22.0
	6H	20.7	21.7	21.2	22.1	22.6	20.7	21.6	21.1	22.0	22.5
	8H	20.9	21.8	21.4	22.2	22.7	20.8	21.7	21.3	22.1	22.6
	12H	21.0	21.8	21.5	22.3	22.7	20.9	21.7	21.4	22.2	22.6

8H	4H	20.5	21.4	21.0	21.8	22.3	20.4	21.3	20.9	21.7	22.2
	6H	21.1	21.9	21.6	22.3	22.8	21.0	21.8	21.5	22.3	22.7
	8H	21.4	22.0	21.9	22.5	23.0	21.3	21.9	21.8	22.4	22.9
	12H	21.5	22.1	22.0	22.6	23.1	21.4	22.0	21.9	22.5	23.0

12H	4H	20.5	21.3	21.0	21.8	22.2	20.5	21.2	20.9	21.7	22.2
	6H	21.2	21.8	21.7	22.3	22.8	21.1	21.8	21.6	22.2	22.8
	8H	21.5	22.0	22.0	22.5	23.1	21.4	21.9	21.9	22.4	23.0

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1276.284 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)