



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_30W_3500K_.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_3500K_
[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3559
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	30.5
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	3959	3921	3932
55	3778	3722	3750
65	3473	3448	3404
75	2960	2867	2857
85	1721	1537	1567

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1252.930	1252.930	1252.930	1252.930	1252.930
5	1253.739	1250.503	1248.077	1246.459	1244.841
10	1237.561	1234.326	1231.899	1228.664	1227.855
15	1211.678	1208.442	1204.398	1202.780	1201.971
20	1174.470	1172.043	1168.808	1165.572	1165.572
25	1128.365	1125.938	1121.894	1120.276	1120.276
30	1070.935	1065.273	1066.891	1062.847	1062.847
35	1000.564	995.711	996.520	995.711	995.711
40	926.958	924.531	924.531	922.913	921.296
45	845.262	845.262	837.174	837.174	839.600
50	750.625	751.434	748.199	743.346	744.963
55	654.371	649.517	644.664	649.517	649.517
60	546.792	545.983	543.556	542.747	541.939
65	443.257	440.831	440.022	440.022	434.360
70	333.252	335.678	331.634	326.781	326.781
75	231.335	225.673	224.055	224.055	223.246
80	126.183	128.609	126.183	126.183	123.756
85	45.296	45.296	40.443	40.443	41.252
90	0.000	0.000	0.809	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	458.94	N.A.	12.90
0-30	976.32	N.A.	27.40
0-40	1600.39	N.A.	45.00
0-60	2827.47	N.A.	79.40
0-80	3501.44	N.A.	98.40
0-90	3558.98	N.A.	100.00
10-90	3440.34	N.A.	96.70
20-40	1141.45	N.A.	32.10
20-50	1789.09	N.A.	50.30
40-70	1661.52	N.A.	46.70
60-80	673.97	N.A.	18.90
70-80	239.53	N.A.	6.70
80-90	57.54	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	3558.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.64
10-20	340.30
20-30	517.38
30-40	624.07
40-50	647.64
50-60	579.44
60-70	434.44
70-80	239.53
80-90	57.54
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	16.8	18.4	17.1	18.7	19.0	UGR Viewed Endwise	16.7	18.4	17.1	18.7	19.0
	3H	18.5	20.0	18.9	20.3	20.7		18.5	19.9	18.8	20.3	20.6
	4H	19.2	20.6	19.6	20.9	21.3		19.1	20.5	19.5	20.8	21.2
	6H	19.6	20.9	20.0	21.2	21.6		19.5	20.8	19.9	21.1	21.5
	8H	19.7	20.9	20.1	21.3	21.7		19.6	20.8	20.0	21.2	21.6
	12H	19.8	20.9	20.2	21.3	21.8		19.6	20.8	20.1	21.2	21.6

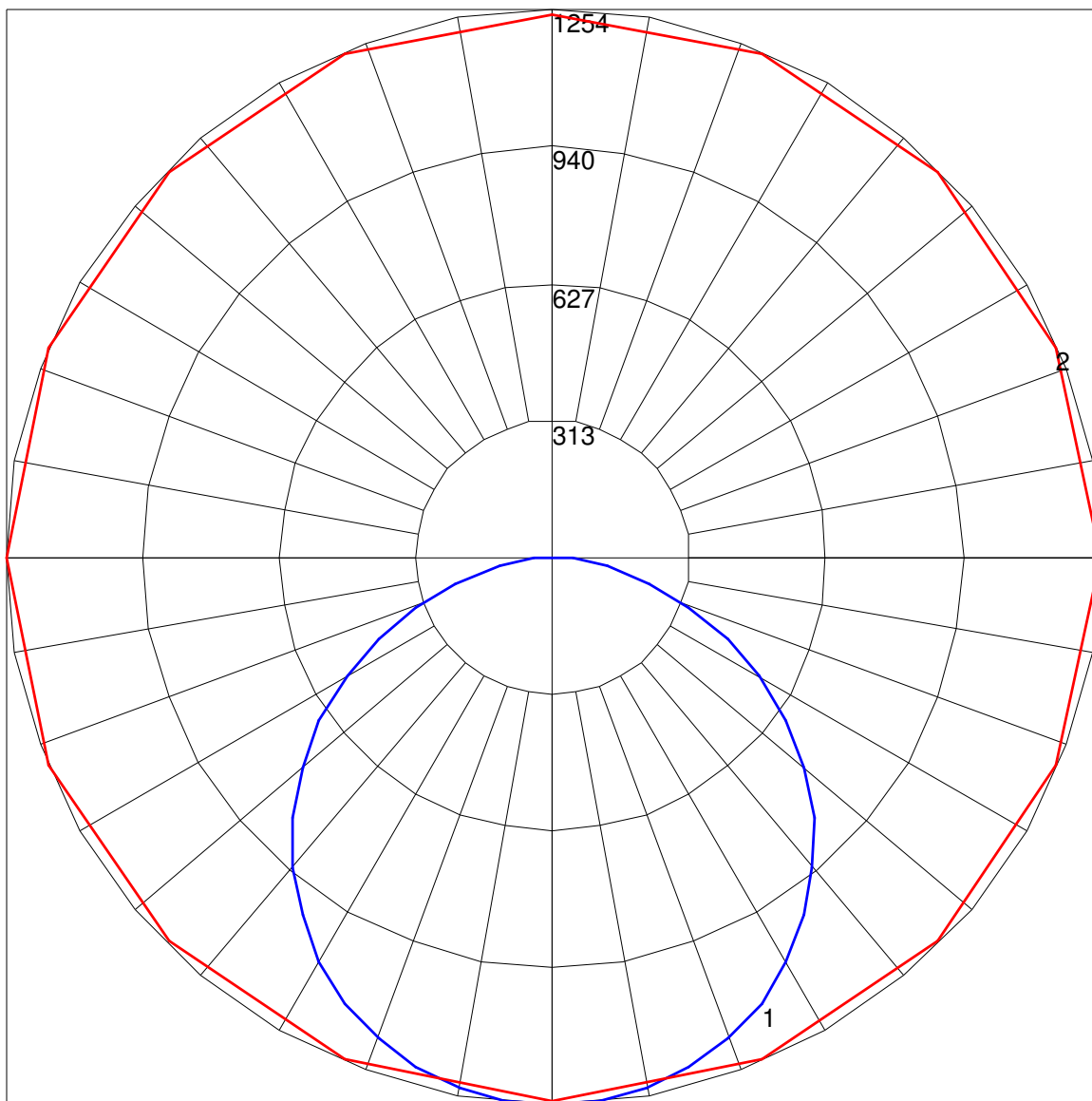
4H	2H	17.4	18.8	17.8	19.1	19.5	17.4	18.8	17.8	19.1	19.5
	3H	19.4	20.5	19.8	20.9	21.3	19.3	20.5	19.7	20.9	21.3
	4H	20.1	21.2	20.5	21.6	22.0	20.0	21.1	20.5	21.5	21.9
	6H	20.6	21.6	21.1	22.0	22.5	20.6	21.5	21.0	21.9	22.4
	8H	20.8	21.7	21.3	22.1	22.6	20.7	21.6	21.2	22.0	22.5
	12H	20.9	21.7	21.4	22.2	22.6	20.8	21.6	21.3	22.1	22.5

8H	4H	20.4	21.3	20.9	21.7	22.2	20.3	21.2	20.8	21.6	22.1
	6H	21.0	21.8	21.5	22.2	22.7	20.9	21.7	21.4	22.2	22.6
	8H	21.3	21.9	21.8	22.4	22.9	21.2	21.8	21.7	22.3	22.8
	12H	21.4	22.0	21.9	22.5	23.0	21.3	21.9	21.8	22.4	22.9

12H	4H	20.4	21.2	20.9	21.7	22.1	20.4	21.1	20.8	21.6	22.1
	6H	21.1	21.7	21.6	22.2	22.7	21.0	21.7	21.5	22.1	22.7
	8H	21.4	21.9	21.9	22.4	23.0	21.3	21.8	21.8	22.3	22.9

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 1253.739 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.)