



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_30W_4000K_.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_4000K_
[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3778
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	29.4
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	4202	4162	4174
55	4011	3951	3981
65	3687	3660	3613
75	3142	3043	3032
85	1827	1631	1664

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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	1330.028	1330.028	1330.028	1330.028	1330.028
5	1330.886	1327.452	1324.876	1323.159	1321.441
10	1313.714	1310.279	1307.703	1304.269	1303.410
15	1286.237	1282.803	1278.510	1276.792	1275.934
20	1246.740	1244.164	1240.730	1237.295	1237.295
25	1197.798	1195.222	1190.929	1189.211	1189.211
30	1136.835	1130.824	1132.541	1128.248	1128.248
35	1062.133	1056.981	1057.840	1056.981	1056.981
40	983.997	981.421	981.421	979.704	977.987
45	897.275	897.275	888.689	888.689	891.265
50	796.815	797.673	794.239	789.087	790.804
55	694.637	689.485	684.333	689.485	689.485
60	580.438	579.580	577.004	576.145	575.286
65	470.533	467.957	467.098	467.098	461.088
70	353.758	356.334	352.041	346.889	346.889
75	245.570	239.560	237.842	237.842	236.984
80	133.947	136.523	133.947	133.947	131.371
85	48.084	48.084	42.932	42.932	43.790
90	0.000	0.000	0.859	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	487.18	N.A.	12.90
0-30	1036.4	N.A.	27.40
0-40	1698.87	N.A.	45.00
0-60	3001.46	N.A.	79.40
0-80	3716.9	N.A.	98.40
0-90	3777.98	N.A.	100.00
10-90	3652.04	N.A.	96.70
20-40	1211.69	N.A.	32.10
20-50	1899.18	N.A.	50.30
40-70	1763.76	N.A.	46.70
60-80	715.44	N.A.	18.90
70-80	254.27	N.A.	6.70
80-90	61.08	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	3777.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.94
10-20	361.24
20-30	549.21
30-40	662.47
40-50	687.49
50-60	615.10
60-70	461.17
70-80	254.27
80-90	61.08
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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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	17.0	18.6	17.3	18.9	19.2	16.9	18.6	17.3	18.9	19.2
	3H	18.7	20.2	19.1	20.5	20.9	18.7	20.1	19.0	20.5	20.8
	4H	19.4	20.8	19.8	21.1	21.5	19.3	20.7	19.7	21.0	21.4
	6H	19.8	21.1	20.2	21.4	21.8	19.7	21.0	20.1	21.3	21.7
	8H	19.9	21.1	20.3	21.5	21.9	19.8	21.0	20.2	21.4	21.8
	12H	20.0	21.1	20.4	21.5	22.0	19.8	21.0	20.3	21.4	21.8

UGR Viewed Endwise

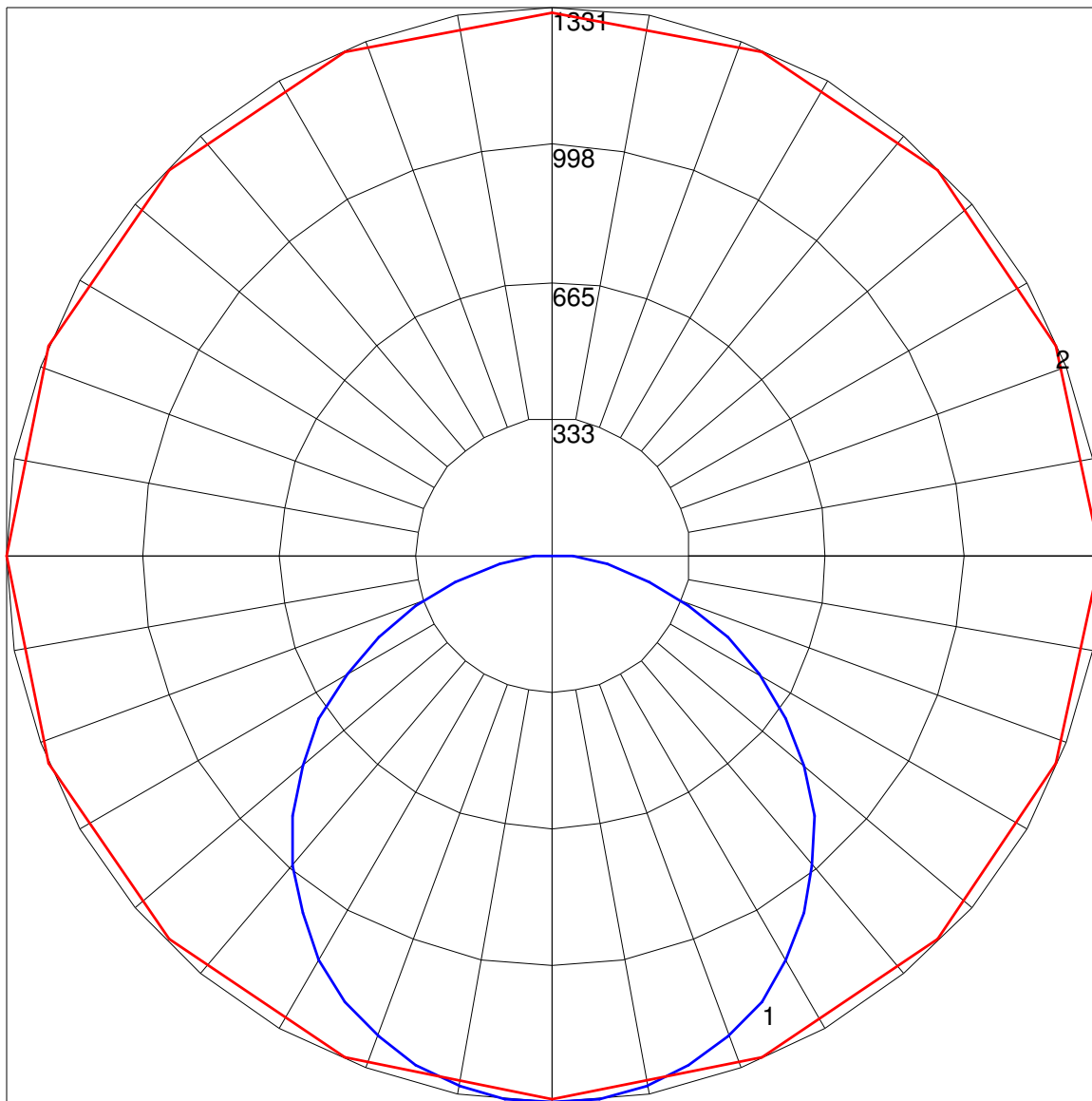
4H	2H	17.6	19.0	18.0	19.3	19.7	17.6	19.0	18.0	19.3	19.7
	3H	19.6	20.7	20.0	21.1	21.5	19.5	20.7	19.9	21.1	21.5
	4H	20.3	21.4	20.7	21.8	22.2	20.2	21.3	20.7	21.7	22.1
	6H	20.8	21.8	21.3	22.2	22.7	20.8	21.7	21.2	22.1	22.6
	8H	21.0	21.9	21.5	22.3	22.8	20.9	21.8	21.4	22.2	22.7
	12H	21.1	21.9	21.6	22.4	22.8	21.0	21.8	21.5	22.3	22.7

8H	4H	20.6	21.5	21.1	21.9	22.4	20.5	21.4	21.0	21.8	22.3
	6H	21.2	22.0	21.7	22.4	22.9	21.1	21.9	21.6	22.4	22.8
	8H	21.5	22.1	22.0	22.6	23.1	21.4	22.0	21.9	22.5	23.0
	12H	21.6	22.2	22.1	22.7	23.2	21.5	22.1	22.0	22.6	23.1

12H	4H	20.6	21.4	21.1	21.9	22.3	20.6	21.3	21.0	21.8	22.3
	6H	21.3	21.9	21.8	22.4	22.9	21.2	21.9	21.7	22.3	22.9
	8H	21.6	22.1	22.1	22.6	23.2	21.5	22.0	22.0	22.5	23.1

Maximum UGR = 23.2

POLAR GRAPH



Maximum Candela = 1330.886 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.)