



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20530
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 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_40W_4000K_
 [LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4898
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	39.4
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	5448	5396	5412
55	5200	5123	5161
65	4780	4745	4684
75	4074	3946	3931
85	2369	2115	2157

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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	1724.319	1724.319	1724.319	1724.319	1724.319
5	1725.432	1720.979	1717.640	1715.413	1713.187
10	1703.168	1698.716	1695.376	1690.923	1689.810
15	1667.547	1663.094	1657.528	1655.302	1654.188
20	1616.340	1613.001	1608.548	1604.095	1604.095
25	1552.889	1549.549	1543.983	1541.757	1541.757
30	1473.853	1466.061	1468.287	1462.721	1462.721
35	1377.006	1370.327	1371.440	1370.327	1370.327
40	1275.707	1272.367	1272.367	1270.141	1267.914
45	1163.275	1163.275	1152.143	1152.143	1155.483
50	1033.033	1034.146	1029.693	1023.014	1025.241
55	900.564	893.885	887.206	893.885	893.885
60	752.511	751.398	748.058	746.945	745.832
65	610.024	606.684	605.571	605.571	597.779
70	458.631	461.971	456.405	449.726	449.726
75	318.370	310.578	308.351	308.351	307.238
80	173.656	176.996	173.656	173.656	170.317
85	62.338	62.338	55.659	55.659	56.772
90	0.000	0.000	1.113	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	631.61	N.A.	12.90
0-30	1343.64	N.A.	27.40
0-40	2202.51	N.A.	45.00
0-60	3891.25	N.A.	79.40
0-80	4818.79	N.A.	98.40
0-90	4897.97	N.A.	100.00
10-90	4734.69	N.A.	96.70
20-40	1570.9	N.A.	32.10
20-50	2462.2	N.A.	50.30
40-70	2286.64	N.A.	46.70
60-80	927.54	N.A.	18.90
70-80	329.64	N.A.	6.70
80-90	79.18	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	4897.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.28
10-20	468.33
20-30	712.03
30-40	858.87
40-50	891.30
50-60	797.45
60-70	597.89
70-80	329.64
80-90	79.18
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	17.9	19.5	18.2	19.8	20.1	17.8	19.5	18.2	19.8	20.1
	3H	19.6	21.1	20.0	21.4	21.8	19.6	21.0	19.9	21.4	21.7
	4H	20.3	21.7	20.7	22.0	22.4	20.2	21.6	20.6	21.9	22.3
	6H	20.7	22.0	21.1	22.3	22.7	20.6	21.9	21.0	22.2	22.6
	8H	20.8	22.0	21.2	22.4	22.8	20.7	21.9	21.1	22.3	22.7
	12H	20.9	22.0	21.3	22.4	22.9	20.7	21.9	21.2	22.3	22.7

UGR Viewed Endwise

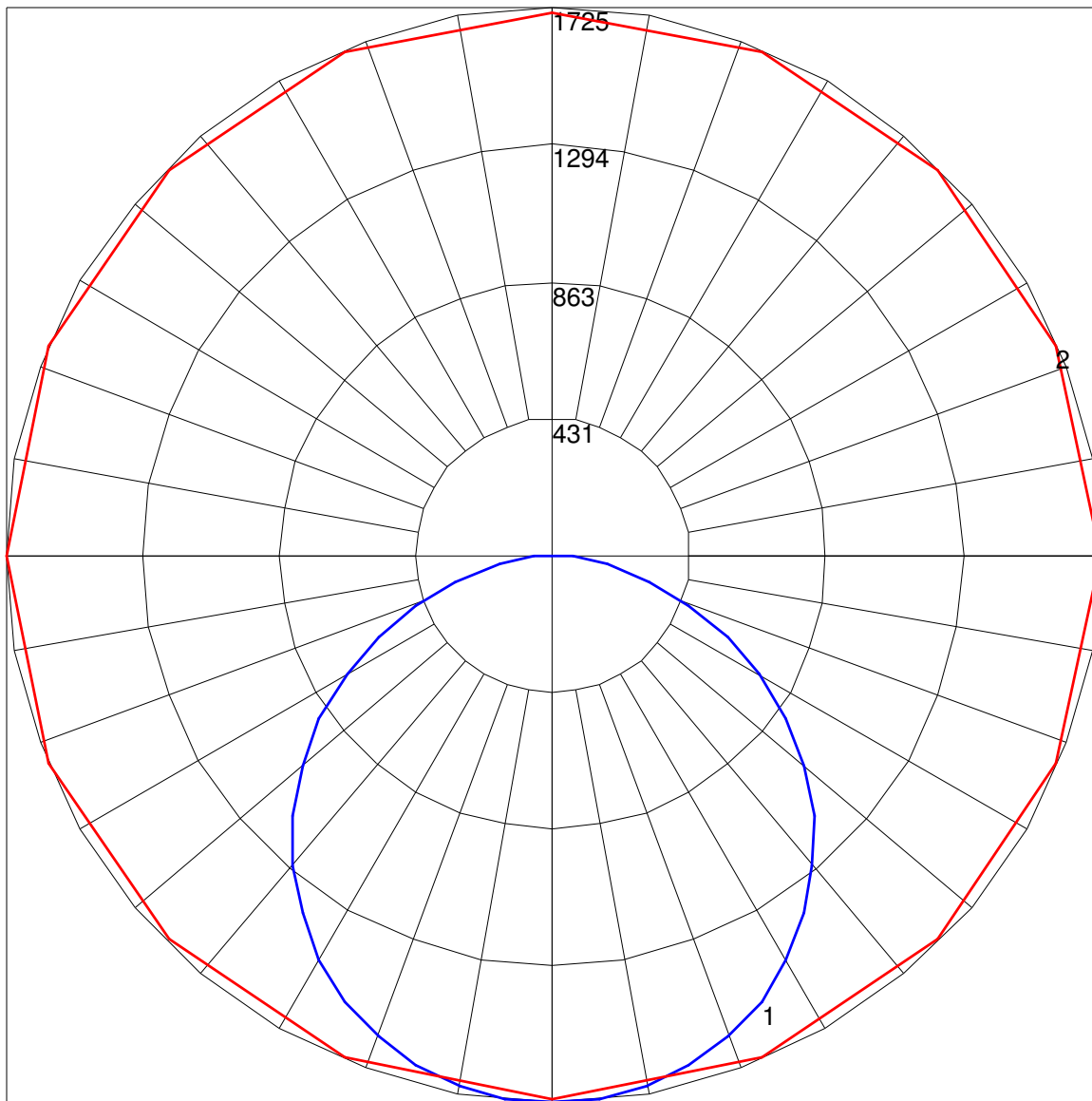
4H	2H	18.5	19.9	18.9	20.2	20.6	18.5	19.9	18.9	20.2	20.6
	3H	20.5	21.6	20.9	22.0	22.4	20.4	21.6	20.8	22.0	22.4
	4H	21.2	22.3	21.6	22.7	23.1	21.1	22.2	21.6	22.6	23.0
	6H	21.7	22.7	22.2	23.1	23.6	21.7	22.6	22.1	23.0	23.5
	8H	21.9	22.8	22.4	23.2	23.7	21.8	22.7	22.3	23.1	23.6
	12H	22.0	22.8	22.5	23.3	23.7	21.9	22.7	22.4	23.2	23.6

8H	4H	21.5	22.4	22.0	22.8	23.3	21.4	22.3	21.9	22.7	23.2
	6H	22.1	22.9	22.6	23.3	23.8	22.0	22.8	22.5	23.3	23.7
	8H	22.4	23.0	22.9	23.5	24.0	22.3	22.9	22.8	23.4	23.9
	12H	22.5	23.1	23.0	23.6	24.1	22.4	23.0	22.9	23.5	24.0

12H	4H	21.5	22.3	22.0	22.8	23.2	21.5	22.2	21.9	22.7	23.2
	6H	22.2	22.8	22.7	23.3	23.8	22.1	22.8	22.6	23.2	23.8
	8H	22.5	23.0	23.0	23.5	24.1	22.4	22.9	22.9	23.4	24.0

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 1725.432 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.)