



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-22-LS-8CS-DIM-UNV_40W_5000K_.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_5000K_
[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4627
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	41.1
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	5147	5097	5112
55	4912	4839	4876
65	4516	4483	4425
75	3848	3727	3714
85	2238	1998	2038

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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	1628.915	1628.915	1628.915	1628.915	1628.915
5	1629.966	1625.760	1622.605	1620.502	1618.399
10	1608.934	1604.728	1601.573	1597.367	1596.315
15	1575.283	1571.077	1565.819	1563.716	1562.664
20	1526.910	1523.755	1519.549	1515.343	1515.343
25	1466.969	1463.815	1458.557	1456.454	1456.454
30	1392.307	1384.945	1387.049	1381.791	1381.791
35	1300.818	1294.509	1295.560	1294.509	1294.509
40	1205.123	1201.969	1201.969	1199.865	1197.762
45	1098.913	1098.913	1088.397	1088.397	1091.551
50	975.876	976.928	972.722	966.412	968.515
55	850.737	844.428	838.118	844.428	844.428
60	710.876	709.824	706.669	705.618	704.566
65	576.272	573.117	572.066	572.066	564.704
70	433.256	436.410	431.152	424.843	424.843
75	300.755	293.394	291.291	291.291	290.239
80	164.048	167.203	164.048	164.048	160.893
85	58.889	58.889	52.580	52.580	53.631
90	0.000	0.000	1.052	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	596.66	N.A.	12.90
0-30	1269.3	N.A.	27.40
0-40	2080.64	N.A.	45.00
0-60	3675.95	N.A.	79.40
0-80	4552.17	N.A.	98.40
0-90	4626.97	N.A.	100.00
10-90	4472.73	N.A.	96.70
20-40	1483.98	N.A.	32.10
20-50	2325.97	N.A.	50.30
40-70	2160.12	N.A.	46.70
60-80	876.22	N.A.	18.90
70-80	311.40	N.A.	6.70
80-90	74.80	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	4626.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.24
10-20	442.42
20-30	672.64
30-40	811.35
40-50	841.98
50-60	753.33
60-70	564.81
70-80	311.40
80-90	74.80
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	17.7	19.3	18.0	19.6	19.9	17.6	19.3	18.0	19.6	19.9
	3H	19.4	20.9	19.8	21.2	21.6	19.4	20.8	19.7	21.2	21.5
	4H	20.1	21.5	20.5	21.8	22.2	20.0	21.4	20.4	21.7	22.1
	6H	20.5	21.8	20.9	22.1	22.5	20.4	21.7	20.8	22.0	22.4
	8H	20.6	21.8	21.0	22.2	22.6	20.5	21.7	20.9	22.1	22.5
	12H	20.7	21.8	21.1	22.2	22.7	20.5	21.7	21.0	22.1	22.5

UGR Viewed Endwise

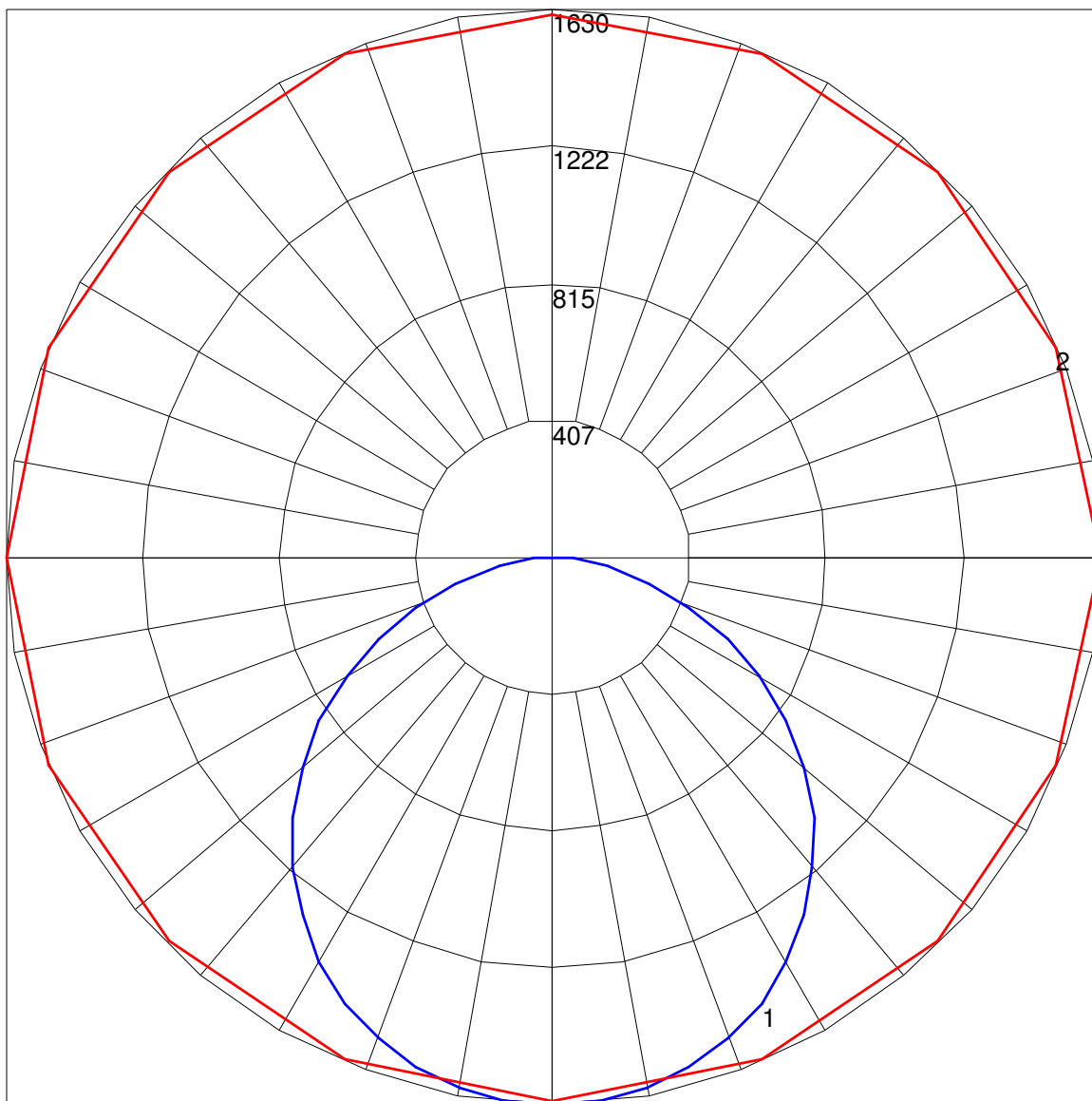
4H	2H	18.3	19.7	18.7	20.0	20.4	18.3	19.7	18.7	20.0	20.4
	3H	20.3	21.4	20.7	21.8	22.2	20.2	21.4	20.6	21.8	22.2
	4H	21.0	22.1	21.4	22.5	22.9	20.9	22.0	21.4	22.4	22.8
	6H	21.5	22.5	22.0	22.9	23.4	21.5	22.4	21.9	22.8	23.3
	8H	21.7	22.6	22.2	23.0	23.5	21.6	22.5	22.1	22.9	23.4
	12H	21.8	22.6	22.3	23.1	23.5	21.7	22.5	22.2	23.0	23.4

8H	4H	21.3	22.2	21.8	22.6	23.1	21.2	22.1	21.7	22.5	23.0
	6H	21.9	22.7	22.4	23.1	23.6	21.8	22.6	22.3	23.1	23.5
	8H	22.2	22.8	22.7	23.3	23.8	22.1	22.7	22.6	23.2	23.7
	12H	22.3	22.9	22.8	23.4	23.9	22.2	22.8	22.7	23.3	23.8

12H	4H	21.3	22.1	21.8	22.6	23.0	21.3	22.0	21.7	22.5	23.0
	6H	22.0	22.6	22.5	23.1	23.6	21.9	22.6	22.4	23.0	23.6
	8H	22.3	22.8	22.8	23.3	23.9	22.2	22.7	22.7	23.2	23.8

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1629.966 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.)