



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_30W_5000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20528

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 2025-09-09

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2x4'ULTRA THIN SEAMLESS FLAT PANEL LIGHT

[MORE] .39" ALUMINUM FRAME w/DIFFUSE LENS

[MORE] 0-10V LED DRIVER

[LUMCAT] BP-24-LS-8CS-DIM-UNV_30W_5000K_

[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3722
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	28.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.80 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	1942	1970	1999
55	1826	1850	1875
65	1732	1744	1762
75	1448	1440	1440
85	1198	1162	1138

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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	1313.843	1313.843	1313.843	1313.843	1313.843
5	1309.851	1307.855	1307.855	1307.855	1307.855
10	1294.551	1293.886	1294.551	1296.546	1296.546
15	1247.984	1247.984	1250.645	1253.306	1253.971
20	1211.396	1211.396	1215.388	1218.714	1220.044
25	1160.838	1162.169	1167.491	1172.812	1174.143
30	1087.662	1089.658	1094.980	1102.963	1106.289
35	1004.508	1006.503	1015.151	1024.465	1027.791
40	937.319	941.310	949.958	959.937	962.598
45	874.786	877.447	887.426	896.074	900.731
50	772.340	775.001	784.979	791.632	796.288
55	667.232	667.898	675.881	681.868	685.194
60	551.481	552.812	558.134	563.456	565.451
65	466.331	466.331	469.657	472.983	474.314
70	352.575	353.241	354.571	355.902	356.567
75	238.820	237.490	237.490	236.824	237.490
80	143.691	143.691	141.030	127.725	127.725
85	66.524	65.858	64.528	64.528	63.197
90	5.322	5.322	3.991	3.991	3.991

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Zone	Lumens	%Lamp	%Fixt
0-20	478.73	N.A.	12.90
0-30	1015.1	N.A.	27.30
0-40	1654.05	N.A.	44.40
0-60	2934.45	N.A.	78.80
0-80	3648.08	N.A.	98.00
0-90	3721.98	N.A.	100.00
10-90	3597.51	N.A.	96.70
20-40	1175.33	N.A.	31.60
20-50	1853.23	N.A.	49.80
40-70	1739.06	N.A.	46.70
60-80	713.63	N.A.	19.20
70-80	254.97	N.A.	6.90
80-90	73.89	N.A.	2.00
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	3721.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.47
10-20	354.25
20-30	536.38
30-40	638.95
40-50	677.90
50-60	602.49
60-70	458.66
70-80	254.97
80-90	73.89
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	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	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	14.2	15.8	14.5	16.1	16.4	14.3	16.0	14.7	16.3	16.6
	3H	16.0	17.5	16.4	17.9	18.2	16.2	17.6	16.5	18.0	18.3
	4H	16.7	18.1	17.1	18.4	18.8	16.8	18.2	17.2	18.5	18.9
	6H	17.2	18.5	17.6	18.8	19.2	17.2	18.5	17.6	18.8	19.2
	8H	17.3	18.6	17.7	19.0	19.4	17.3	18.6	17.7	18.9	19.3
	12H	17.4	18.6	17.9	19.0	19.4	17.4	18.6	17.8	19.0	19.4

UGR Viewed Endwise

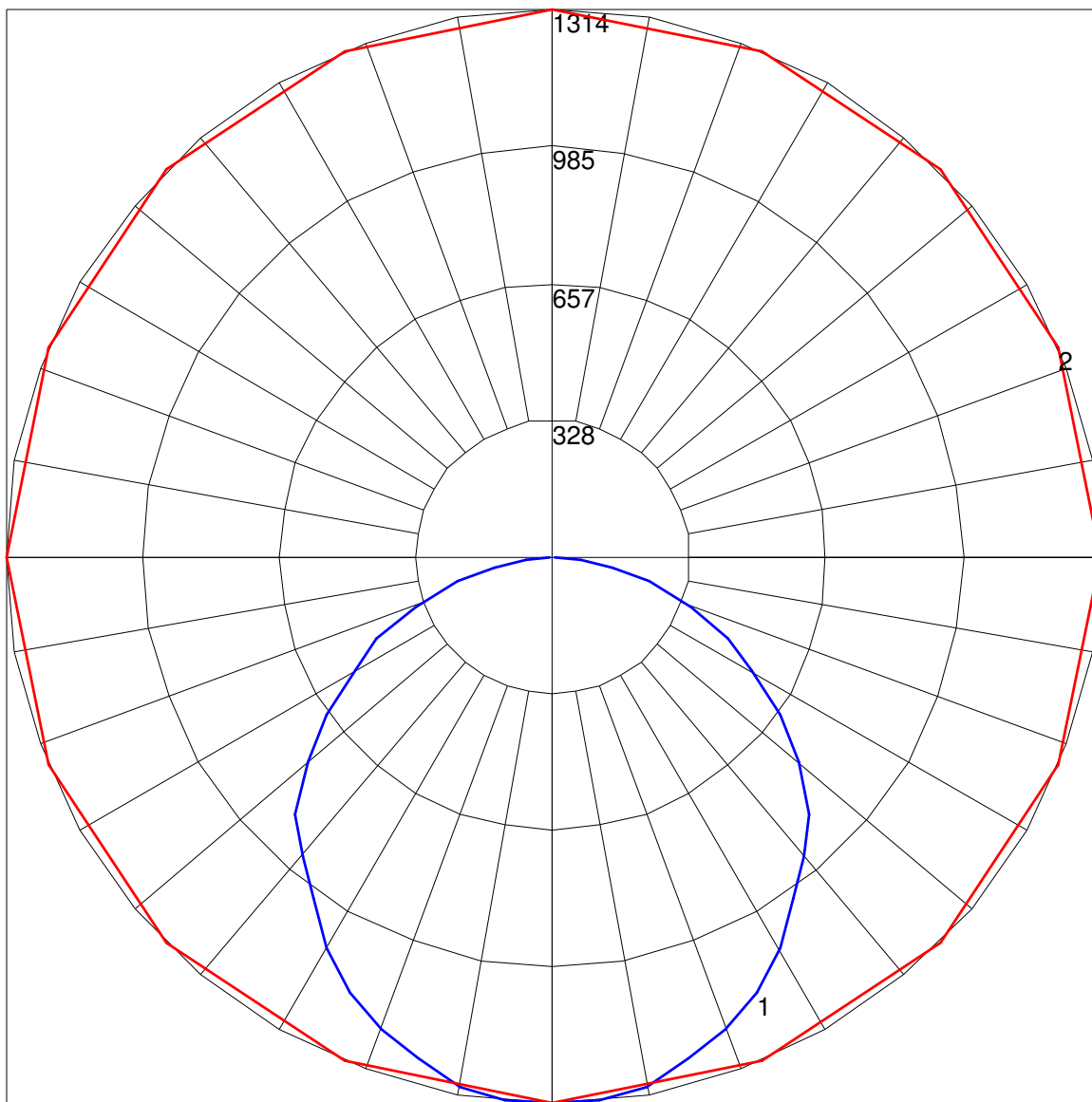
4H	2H	14.9	16.3	15.3	16.6	17.0	15.0	16.4	15.4	16.7	17.1
	3H	16.9	18.1	17.3	18.5	18.9	17.0	18.2	17.4	18.6	19.0
	4H	17.7	18.7	18.1	19.2	19.6	17.8	18.8	18.2	19.2	19.7
	6H	18.3	19.2	18.7	19.7	20.1	18.3	19.2	18.7	19.6	20.1
	8H	18.5	19.4	19.0	19.8	20.3	18.4	19.3	18.9	19.7	20.2
	12H	18.7	19.4	19.1	19.9	20.4	18.6	19.4	19.0	19.8	20.3

8H	4H	18.0	18.9	18.4	19.3	19.8	18.0	18.9	18.5	19.4	19.8
	6H	18.7	19.4	19.2	19.9	20.4	18.7	19.4	19.1	19.9	20.3
	8H	19.0	19.6	19.5	20.1	20.6	18.9	19.5	19.4	20.0	20.5
	12H	19.2	19.8	19.7	20.3	20.9	19.1	19.7	19.6	20.2	20.7

12H	4H	18.0	18.8	18.5	19.3	19.7	18.1	18.9	18.5	19.3	19.8
	6H	18.8	19.4	19.3	19.9	20.4	18.7	19.4	19.2	19.8	20.4
	8H	19.1	19.7	19.6	20.2	20.7	19.0	19.6	19.5	20.1	20.6

Maximum UGR = 20.9

POLAR GRAPH



Maximum Candela = 1313.843 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)