



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_30W_3500K_.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_3500K_
[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	28.9
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	1907	1935	1964
55	1794	1817	1842
65	1701	1713	1730
75	1423	1415	1415
85	1177	1142	1118

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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	1290.545	1290.545	1290.545	1290.545	1290.545
5	1286.625	1284.664	1284.664	1284.664	1284.664
10	1271.595	1270.942	1271.595	1273.556	1273.556
15	1225.855	1225.855	1228.468	1231.082	1231.736
20	1189.915	1189.915	1193.836	1197.103	1198.410
25	1140.254	1141.561	1146.788	1152.016	1153.323
30	1068.375	1070.336	1075.563	1083.405	1086.672
35	986.695	988.656	997.150	1006.299	1009.566
40	920.698	924.618	933.113	942.915	945.529
45	859.274	861.888	871.690	880.184	884.759
50	758.645	761.258	771.060	777.594	782.168
55	655.401	656.054	663.896	669.777	673.044
60	541.702	543.009	548.237	553.464	555.425
65	458.062	458.062	461.329	464.596	465.903
70	346.324	346.977	348.284	349.591	350.244
75	234.585	233.278	233.278	232.625	233.278
80	141.143	141.143	138.529	125.461	125.461
85	65.344	64.691	63.384	63.384	62.077
90	5.228	5.228	3.921	3.921	3.921

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	470.24	N.A.	12.90
0-30	997.10	N.A.	27.30
0-40	1624.72	N.A.	44.40
0-60	2882.42	N.A.	78.80
0-80	3583.39	N.A.	98.00
0-90	3655.98	N.A.	100.00
10-90	3533.71	N.A.	96.70
20-40	1154.49	N.A.	31.60
20-50	1820.37	N.A.	49.80
40-70	1708.22	N.A.	46.70
60-80	700.97	N.A.	19.20
70-80	250.45	N.A.	6.90
80-90	72.58	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	3655.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.26
10-20	347.97
20-30	526.86
30-40	627.62
40-50	665.88
50-60	591.81
60-70	450.53
70-80	250.45
80-90	72.59
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

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	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	14.1	15.7	14.4	16.0	16.3	14.2	15.9	14.6	16.2	16.5
	3H	15.9	17.4	16.3	17.8	18.1	16.1	17.5	16.4	17.9	18.2
	4H	16.6	18.0	17.0	18.3	18.7	16.7	18.1	17.1	18.4	18.8
	6H	17.1	18.4	17.5	18.7	19.1	17.1	18.4	17.5	18.7	19.1
	8H	17.2	18.5	17.6	18.9	19.3	17.2	18.5	17.6	18.8	19.2
	12H	17.3	18.5	17.8	18.9	19.3	17.3	18.5	17.7	18.9	19.3

UGR Viewed Endwise

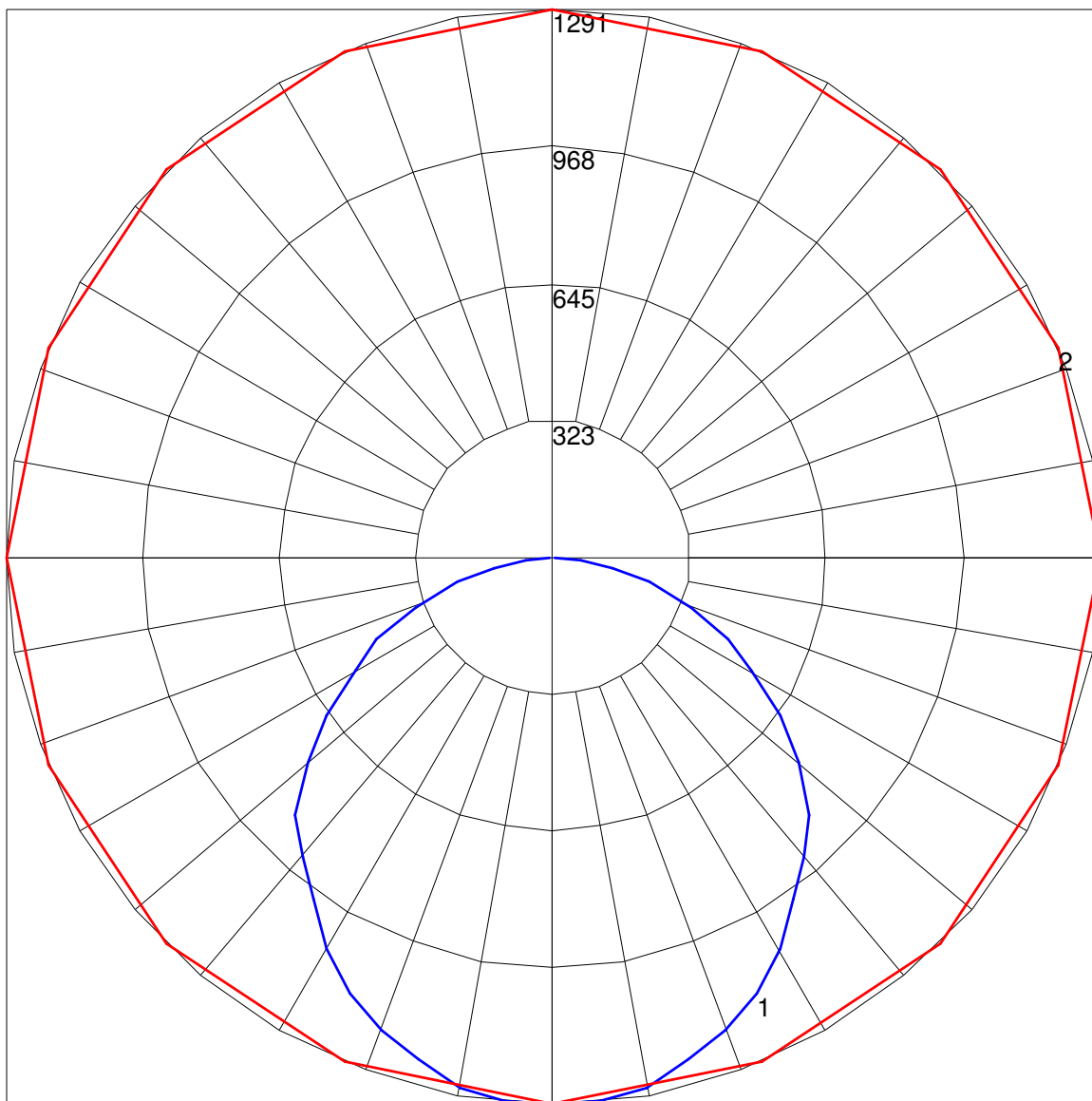
4H	2H	14.8	16.2	15.2	16.5	16.9	14.9	16.3	15.3	16.6	17.0
	3H	16.8	18.0	17.2	18.4	18.8	16.9	18.1	17.3	18.5	18.9
	4H	17.6	18.6	18.0	19.1	19.5	17.7	18.7	18.1	19.1	19.6
	6H	18.2	19.1	18.6	19.6	20.0	18.2	19.1	18.6	19.5	20.0
	8H	18.4	19.3	18.9	19.7	20.2	18.3	19.2	18.8	19.6	20.1
	12H	18.6	19.3	19.0	19.8	20.3	18.5	19.3	18.9	19.7	20.2

8H	4H	17.9	18.8	18.3	19.2	19.7	17.9	18.8	18.4	19.3	19.7
	6H	18.6	19.3	19.1	19.8	20.3	18.6	19.3	19.0	19.8	20.2
	8H	18.9	19.5	19.4	20.0	20.5	18.8	19.4	19.3	19.9	20.4
	12H	19.1	19.7	19.6	20.2	20.8	19.0	19.6	19.5	20.1	20.6

12H	4H	17.9	18.7	18.4	19.2	19.6	18.0	18.8	18.4	19.2	19.7
	6H	18.7	19.3	19.2	19.8	20.3	18.6	19.3	19.1	19.7	20.3
	8H	19.0	19.6	19.5	20.1	20.6	18.9	19.5	19.4	20.0	20.5

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 1290.545 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.)