



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_50W_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_50W_3500K_

[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5698
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	48.6
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	2973	3016	3061
55	2795	2832	2871
65	2651	2670	2697
75	2217	2205	2205
85	1834	1779	1742

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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	2011.358	2011.358	2011.358	2011.358	2011.358
5	2005.247	2002.192	2002.192	2002.192	2002.192
10	1981.824	1980.806	1981.824	1984.879	1984.879
15	1910.535	1910.535	1914.609	1918.683	1919.701
20	1854.523	1854.523	1860.633	1865.725	1867.762
25	1777.124	1779.161	1787.308	1795.455	1797.492
30	1665.099	1668.154	1676.301	1688.522	1693.614
35	1537.798	1540.853	1554.092	1568.350	1573.442
40	1434.938	1441.049	1454.288	1469.564	1473.638
45	1339.208	1343.281	1358.558	1371.797	1378.926
50	1182.373	1186.447	1201.723	1211.907	1219.036
55	1021.464	1022.483	1034.704	1043.869	1048.961
60	844.261	846.298	854.445	862.592	865.648
65	713.905	713.905	718.997	724.089	726.126
70	539.757	540.775	542.812	544.849	545.867
75	365.609	363.572	363.572	362.554	363.572
80	219.976	219.976	215.903	195.535	195.535
85	101.841	100.822	98.786	98.786	96.749
90	8.147	8.147	6.110	6.110	6.110

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Zone	Lumens	%Lamp	%Fixt
0-20	732.88	N.A.	12.90
0-30	1554.02	N.A.	27.30
0-40	2532.19	N.A.	44.40
0-60	4492.34	N.A.	78.80
0-80	5584.84	N.A.	98.00
0-90	5697.96	N.A.	100.00
10-90	5507.41	N.A.	96.70
20-40	1799.31	N.A.	31.60
20-50	2837.11	N.A.	49.80
40-70	2662.32	N.A.	46.70
60-80	1092.49	N.A.	19.20
70-80	390.33	N.A.	6.90
80-90	113.13	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	5697.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	190.55
10-20	542.33
20-30	821.14
30-40	978.17
40-50	1037.8
50-60	922.36
60-70	702.16
70-80	390.33
80-90	113.13
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	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	15.6	17.2	15.9	17.5	17.8	15.7	17.4	16.1	17.7	18.0
	3H	17.4	18.9	17.8	19.3	19.6	17.6	19.0	17.9	19.4	19.7
	4H	18.1	19.5	18.5	19.8	20.2	18.2	19.6	18.6	19.9	20.3
	6H	18.6	19.9	19.0	20.2	20.6	18.6	19.9	19.0	20.2	20.6
	8H	18.7	20.0	19.1	20.4	20.8	18.7	19.9	19.1	20.3	20.7
	12H	18.8	20.0	19.3	20.4	20.8	18.8	20.0	19.2	20.4	20.8

UGR Viewed Endwise

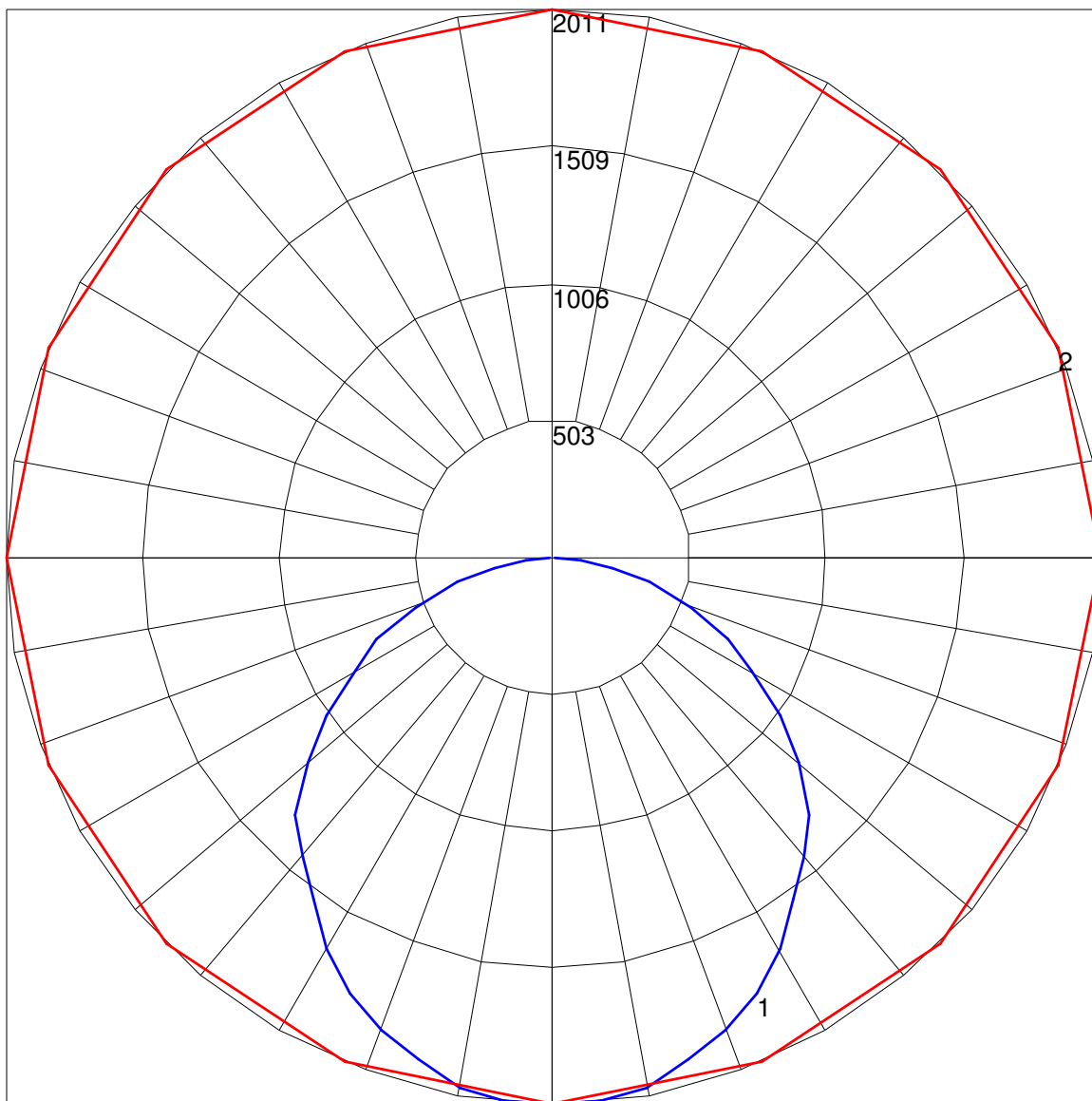
4H	2H	16.3	17.7	16.7	18.0	18.4	16.4	17.8	16.8	18.1	18.5
	3H	18.3	19.5	18.7	19.9	20.3	18.4	19.6	18.8	20.0	20.4
	4H	19.1	20.1	19.5	20.6	21.0	19.2	20.2	19.6	20.6	21.1
	6H	19.7	20.6	20.1	21.1	21.5	19.7	20.6	20.1	21.0	21.5
	8H	19.9	20.8	20.3	21.2	21.7	19.8	20.7	20.3	21.1	21.6
	12H	20.1	20.8	20.5	21.3	21.8	20.0	20.8	20.4	21.2	21.7

8H	4H	19.4	20.3	19.8	20.7	21.2	19.4	20.3	19.9	20.8	21.2
	6H	20.1	20.8	20.6	21.3	21.8	20.1	20.8	20.5	21.3	21.7
	8H	20.4	21.0	20.9	21.5	22.0	20.3	20.9	20.8	21.4	21.9
	12H	20.6	21.2	21.1	21.7	22.3	20.5	21.1	21.0	21.6	22.1

12H	4H	19.4	20.2	19.9	20.7	21.1	19.5	20.3	19.9	20.7	21.2
	6H	20.2	20.8	20.7	21.3	21.8	20.1	20.8	20.6	21.2	21.8
	8H	20.5	21.1	21.0	21.6	22.1	20.4	21.0	20.9	21.5	22.0

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 2011.358 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.)