



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_40W_4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20531

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 2025-09-09

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 1x4 ULTRA THIN SEAMLESS FLAT PANEL LIGHT

[MORE] .39" ALUMINUM FRAME w/PS 1mm DIFFUSE LENS PMMA 2mm LIGHT

[MORE] GUIDE PANEL, LED DRIVER

[LUMCAT] BP-14-LS-8CS-DIM-UNV_40W_4000K_

[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4872
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	38.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.81 ft
Luminous Width (90-270)	0.83 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5466	5520	5542
55	5163	5170	5204
65	4907	4907	4880
75	4149	4059	4089
85	3469	3291	3158

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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	1732.115	1732.115	1732.115	1732.115	1732.115
5	1733.253	1733.253	1733.253	1733.253	1733.253
10	1711.630	1712.768	1712.768	1713.906	1713.906
15	1667.246	1667.246	1669.522	1671.798	1674.074
20	1580.754	1580.754	1586.444	1586.444	1589.859
25	1537.508	1540.922	1545.475	1550.027	1550.027
30	1435.084	1435.084	1438.498	1446.464	1447.602
35	1331.521	1331.521	1338.349	1345.177	1347.454
40	1237.063	1240.477	1245.029	1247.305	1252.995
45	1134.638	1136.914	1146.018	1148.294	1150.571
50	1012.866	1014.004	1019.695	1026.523	1025.385
55	869.472	870.610	870.610	872.886	876.300
60	726.077	727.215	726.077	723.801	728.353
65	608.858	608.858	608.858	606.582	605.444
70	462.049	462.049	460.911	460.911	457.497
75	315.240	311.826	308.412	308.412	310.688
80	199.159	198.021	193.469	190.055	193.469
85	88.768	86.492	84.216	81.940	80.802
90	5.690	6.828	6.828	5.690	5.690

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	633.60	N.A.	13.00
0-30	1339.66	N.A.	27.50
0-40	2179.86	N.A.	44.70
0-60	3839.75	N.A.	78.80
0-80	4771.35	N.A.	97.90
0-90	4871.93	N.A.	100.00
10-90	4707.21	N.A.	96.60
20-40	1546.26	N.A.	31.70
20-50	2425.52	N.A.	49.80
40-70	2254.8	N.A.	46.30
60-80	931.60	N.A.	19.10
70-80	336.70	N.A.	6.90
80-90	100.57	N.A.	2.10
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	4871.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.71
10-20	468.89
20-30	706.06
30-40	840.19
40-50	879.27
50-60	780.63
60-70	594.90
70-80	336.70
80-90	100.57
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	88	78	70	64	75	68	63	72	66	62	69	65	61	59
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	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	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	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	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	17.8	19.4	18.1	19.7	20.0	UGR Viewed Endwise	17.8	19.4	18.1	19.7	20.0
	3H	19.6	21.1	20.0	21.4	21.8		19.6	21.1	20.0	21.4	21.8
	4H	20.3	21.7	20.7	22.0	22.4		20.3	21.7	20.6	22.0	22.4
	6H	20.8	22.1	21.2	22.5	22.9		20.8	22.0	21.2	22.4	22.8
	8H	21.0	22.2	21.4	22.6	23.0		20.9	22.2	21.3	22.5	22.9
	12H	21.1	22.3	21.5	22.7	23.1		21.0	22.2	21.5	22.6	23.0

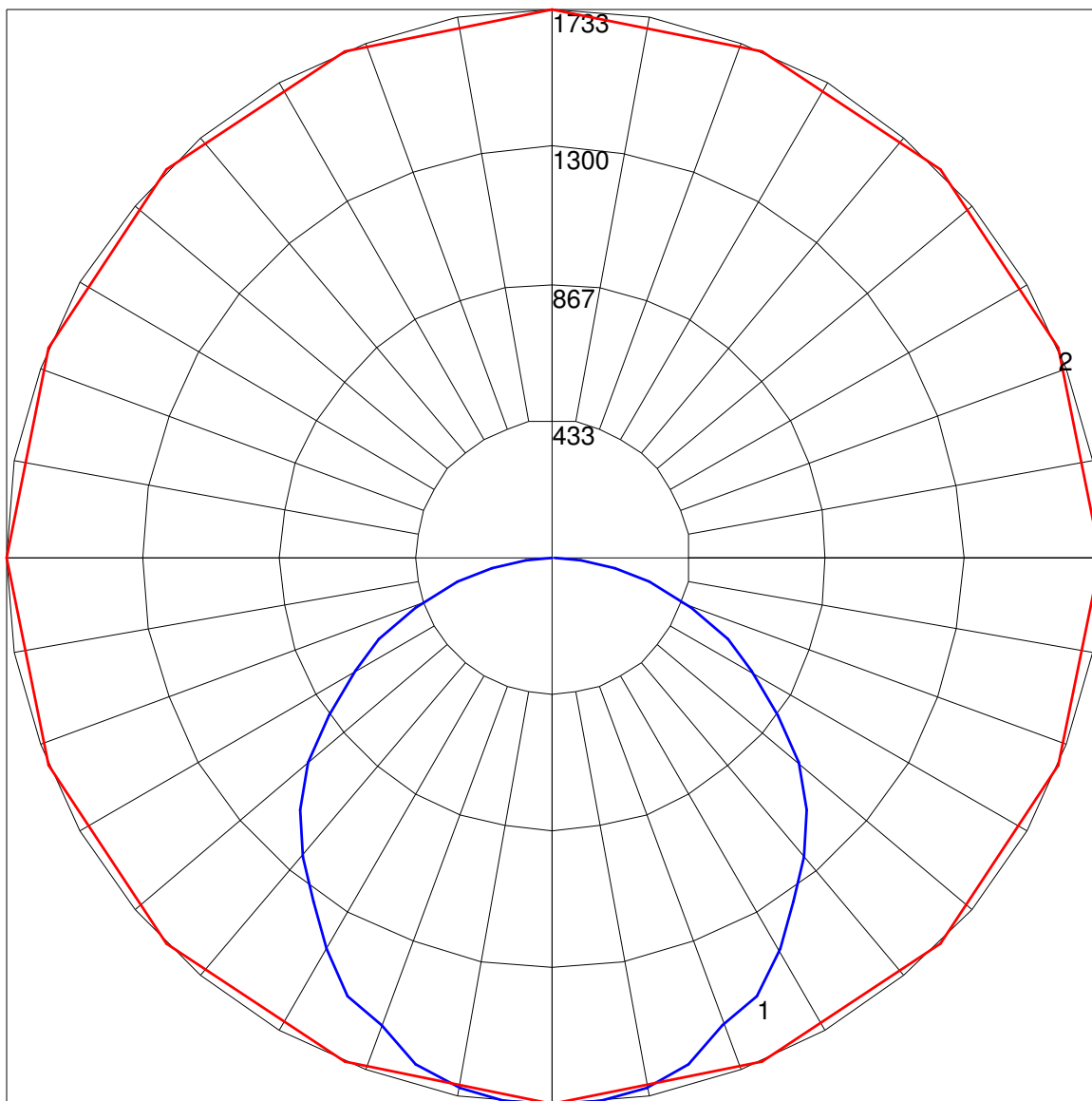
4H	2H	18.4	19.8	18.8	20.2	20.6	18.4	19.8	18.8	20.2	20.6
	3H	20.5	21.7	20.9	22.1	22.5	20.5	21.7	20.9	22.1	22.5
	4H	21.3	22.3	21.7	22.8	23.2	21.3	22.3	21.7	22.7	23.2
	6H	21.9	22.8	22.4	23.3	23.7	21.9	22.8	22.3	23.2	23.7
	8H	22.1	23.0	22.6	23.5	23.9	22.1	22.9	22.5	23.4	23.9
	12H	22.3	23.1	22.8	23.6	24.0	22.2	23.0	22.7	23.5	24.0

8H	4H	21.6	22.4	22.0	22.9	23.4	21.5	22.4	22.0	22.9	23.3
	6H	22.3	23.1	22.8	23.6	24.0	22.3	23.0	22.8	23.5	24.0
	8H	22.6	23.3	23.2	23.8	24.3	22.6	23.2	23.1	23.7	24.2
	12H	22.9	23.5	23.4	24.0	24.5	22.8	23.4	23.3	23.9	24.4

12H	4H	21.6	22.4	22.1	22.9	23.3	21.6	22.4	22.1	22.8	23.3
	6H	22.4	23.1	22.9	23.5	24.1	22.4	23.0	22.9	23.5	24.0
	8H	22.8	23.4	23.3	23.8	24.4	22.7	23.3	23.2	23.8	24.3

Maximum UGR = 24.5

POLAR GRAPH



Maximum Candela = 1733.253 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.)