



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_30W_5000K_.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_30W_5000K_

[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	29.6
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	4041	4081	4098
55	3817	3822	3847
65	3628	3628	3608
75	3067	3001	3023
85	2565	2433	2335

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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	1280.599	1280.599	1280.599	1280.599	1280.599
5	1281.440	1281.440	1281.440	1281.440	1281.440
10	1265.454	1266.295	1266.295	1267.137	1267.137
15	1232.640	1232.640	1234.322	1236.005	1237.688
20	1168.694	1168.694	1172.901	1172.901	1175.425
25	1136.721	1139.245	1142.611	1145.976	1145.976
30	1060.996	1060.996	1063.520	1069.410	1070.251
35	984.429	984.429	989.477	994.526	996.208
40	914.593	917.118	920.483	922.166	926.373
45	838.868	840.551	847.282	848.965	850.648
50	748.839	749.680	753.887	758.936	758.094
55	642.824	643.665	643.665	645.348	647.872
60	536.808	537.650	536.808	535.125	538.491
65	450.145	450.145	450.145	448.462	447.621
70	341.605	341.605	340.764	340.764	338.240
75	233.066	230.541	228.017	228.017	229.700
80	147.244	146.402	143.037	140.513	143.037
85	65.629	63.946	62.263	60.580	59.739
90	4.207	5.048	5.048	4.207	4.207

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Zone	Lumens	%Lamp	%Fixt
0-20	468.44	N.A.	13.00
0-30	990.45	N.A.	27.50
0-40	1611.63	N.A.	44.70
0-60	2838.83	N.A.	78.80
0-80	3527.59	N.A.	97.90
0-90	3601.95	N.A.	100.00
10-90	3480.17	N.A.	96.60
20-40	1143.19	N.A.	31.70
20-50	1793.25	N.A.	49.80
40-70	1667.03	N.A.	46.30
60-80	688.76	N.A.	19.10
70-80	248.93	N.A.	6.90
80-90	74.36	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	3601.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.78
10-20	346.66
20-30	522.01
30-40	621.18
40-50	650.07
50-60	577.14
60-70	439.83
70-80	248.93
80-90	74.36
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	16.8	18.4	17.1	18.7	19.0	UGR Viewed Endwise	16.8	18.4	17.1	18.7	19.0
	3H	18.6	20.1	19.0	20.4	20.8		18.6	20.1	19.0	20.4	20.8
	4H	19.3	20.7	19.7	21.0	21.4		19.3	20.7	19.6	21.0	21.4
	6H	19.8	21.1	20.2	21.5	21.9		19.8	21.1	20.2	21.4	21.8
	8H	20.0	21.2	20.4	21.6	22.0		19.9	21.2	20.3	21.5	21.9
	12H	20.1	21.3	20.5	21.7	22.1		20.0	21.2	20.5	21.6	22.0

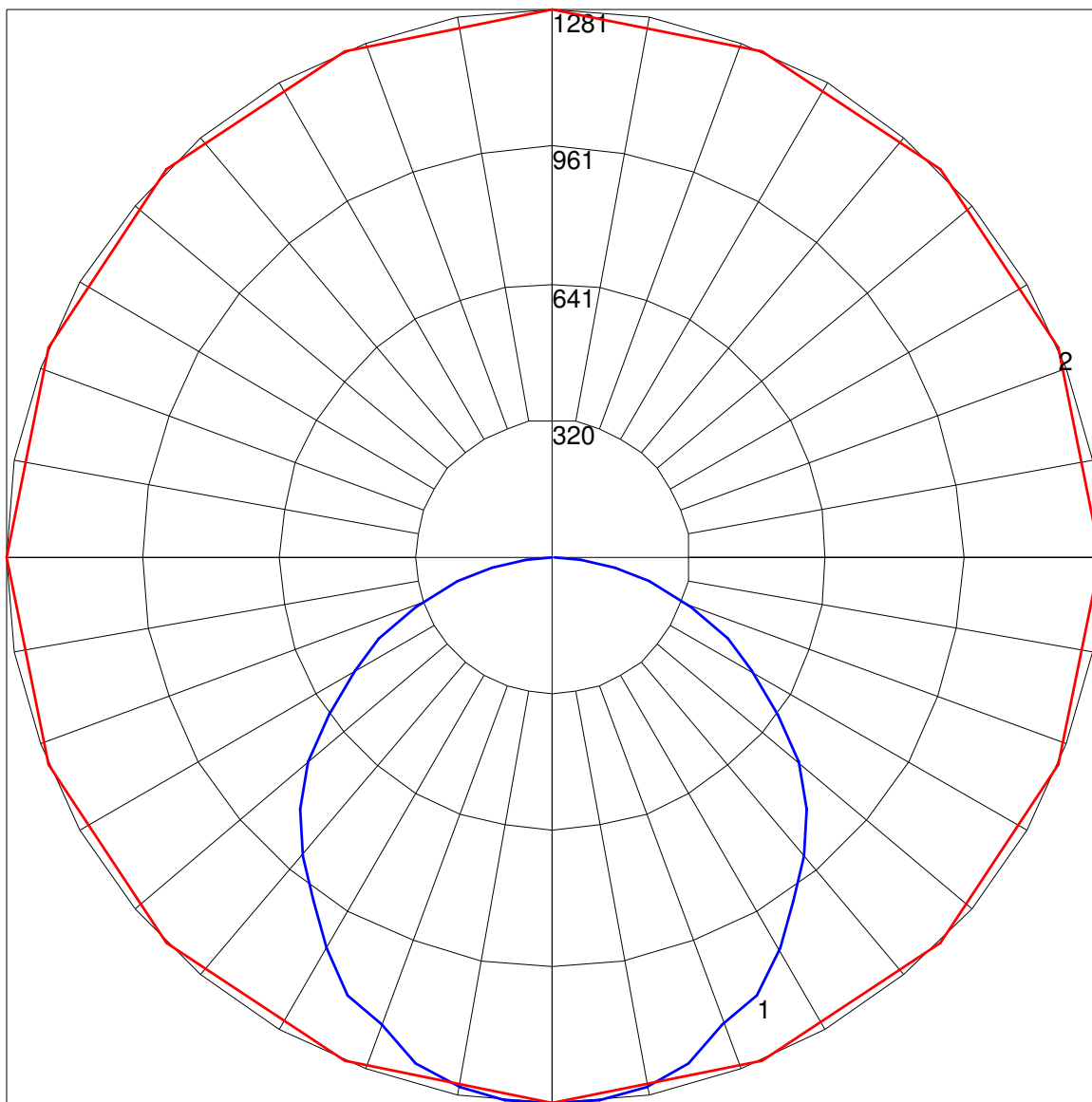
4H	2H	17.4	18.8	17.8	19.2	19.6	17.4	18.8	17.8	19.2	19.6
	3H	19.5	20.7	19.9	21.1	21.5	19.5	20.7	19.9	21.1	21.5
	4H	20.3	21.3	20.7	21.8	22.2	20.3	21.3	20.7	21.7	22.2
	6H	20.9	21.8	21.4	22.3	22.7	20.9	21.8	21.3	22.2	22.7
	8H	21.1	22.0	21.6	22.5	22.9	21.1	21.9	21.5	22.4	22.9
	12H	21.3	22.1	21.8	22.6	23.0	21.2	22.0	21.7	22.5	23.0

8H	4H	20.6	21.4	21.0	21.9	22.4	20.5	21.4	21.0	21.9	22.3
	6H	21.3	22.1	21.8	22.6	23.0	21.3	22.0	21.8	22.5	23.0
	8H	21.7	22.3	22.2	22.8	23.3	21.6	22.2	22.1	22.7	23.2
	12H	21.9	22.5	22.4	23.0	23.5	21.8	22.4	22.3	22.9	23.4

12H	4H	20.6	21.4	21.1	21.9	22.3	20.6	21.4	21.1	21.8	22.3
	6H	21.4	22.1	21.9	22.5	23.1	21.4	22.0	21.9	22.5	23.0
	8H	21.8	22.4	22.3	22.8	23.4	21.7	22.3	22.2	22.8	23.3

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1281.44 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.)