



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_30W_3500K_.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_3500K_

[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	29.7
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	4068	4109	4125
55	3843	3848	3873
65	3652	3652	3632
75	3088	3021	3043
85	2582	2450	2350

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_30W_3500K_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1289.132	1289.132	1289.132	1289.132	1289.132
5	1289.979	1289.979	1289.979	1289.979	1289.979
10	1273.886	1274.733	1274.733	1275.580	1275.580
15	1240.853	1240.853	1242.547	1244.241	1245.935
20	1176.481	1176.481	1180.716	1180.716	1183.257
25	1144.295	1146.836	1150.224	1153.612	1153.612
30	1068.065	1068.065	1070.606	1076.535	1077.382
35	990.988	990.988	996.070	1001.152	1002.846
40	920.687	923.228	926.616	928.310	932.545
45	844.457	846.151	852.927	854.621	856.315
50	753.829	754.676	758.911	763.993	763.146
55	647.107	647.954	647.954	649.648	652.189
60	540.385	541.232	540.385	538.691	542.079
65	453.144	453.144	453.144	451.450	450.603
70	343.881	343.881	343.034	343.034	340.493
75	234.619	232.078	229.537	229.537	231.231
80	148.225	147.378	143.990	141.449	143.990
85	66.066	64.372	62.678	60.984	60.137
90	4.235	5.082	5.082	4.235	4.235

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_30W_3500K_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	471.56	N.A.	13.00
0-30	997.05	N.A.	27.50
0-40	1622.36	N.A.	44.70
0-60	2857.75	N.A.	78.80
0-80	3551.09	N.A.	97.90
0-90	3625.95	N.A.	100.00
10-90	3503.36	N.A.	96.60
20-40	1150.8	N.A.	31.70
20-50	1805.2	N.A.	49.80
40-70	1678.14	N.A.	46.30
60-80	693.35	N.A.	19.10
70-80	250.59	N.A.	6.90
80-90	74.85	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	3625.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.59
10-20	348.97
20-30	525.49
30-40	625.32
40-50	654.40
50-60	580.98
60-70	442.76
70-80	250.59
80-90	74.85
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_30W_3500K_.IES

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-14-LS-8CS-DIM-UNV_30W_3500K_.IES

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

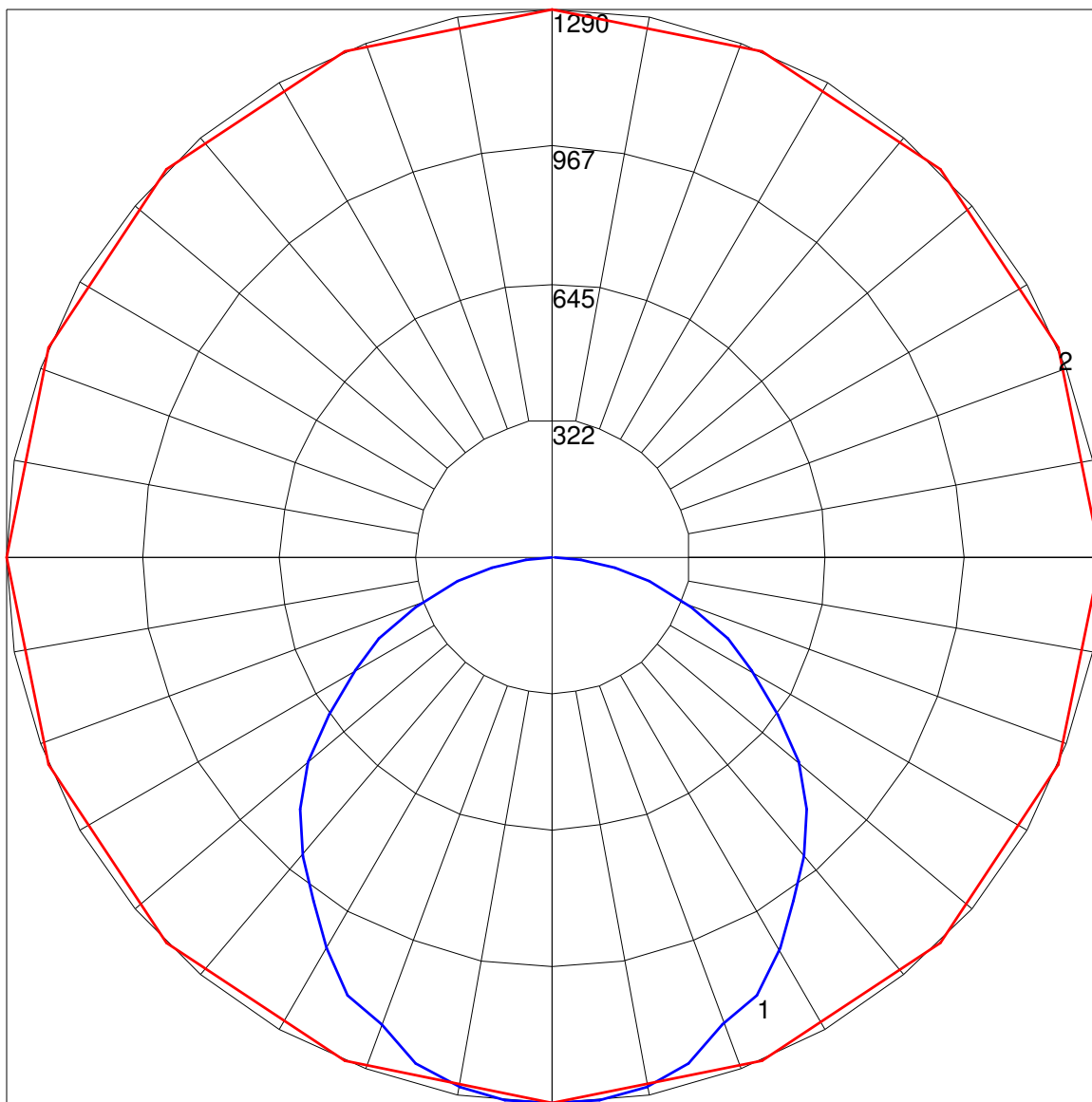
4H	2H	17.4	18.8	17.8	19.2	19.6	17.4	18.8	17.8	19.2	19.6
	3H	19.5	20.7	19.9	21.1	21.5	19.5	20.7	19.9	21.1	21.5
	4H	20.3	21.3	20.7	21.8	22.2	20.3	21.3	20.7	21.7	22.2
	6H	20.9	21.8	21.4	22.3	22.7	20.9	21.8	21.3	22.2	22.7
	8H	21.1	22.0	21.6	22.5	22.9	21.1	21.9	21.5	22.4	22.9
	12H	21.3	22.1	21.8	22.6	23.0	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 = 1289.979 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.)