



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_30W_4000K_.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_4000K_
 [LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3809
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	28.1
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	1987	2016	2046
55	1869	1893	1919
65	1772	1785	1803
75	1482	1474	1474
85	1226	1189	1165

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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	1344.553	1344.553	1344.553	1344.553	1344.553
5	1340.468	1338.426	1338.426	1338.426	1338.426
10	1324.810	1324.129	1324.810	1326.853	1326.853
15	1277.155	1277.155	1279.878	1282.602	1283.282
20	1239.712	1239.712	1243.797	1247.201	1248.562
25	1187.972	1189.334	1194.780	1200.226	1201.588
30	1113.086	1115.128	1120.574	1128.744	1132.148
35	1027.987	1030.030	1038.880	1048.411	1051.815
40	959.228	963.313	972.163	982.375	985.098
45	895.234	897.957	908.169	917.019	921.785
50	790.393	793.116	803.328	810.136	814.901
55	682.829	683.510	691.679	697.806	701.210
60	564.372	565.733	571.180	576.626	578.668
65	477.231	477.231	480.635	484.039	485.401
70	360.817	361.498	362.859	364.221	364.901
75	244.402	243.041	243.041	242.360	243.041
80	147.050	147.050	144.327	130.711	130.711
85	68.079	67.398	66.036	66.036	64.675
90	5.446	5.446	4.085	4.085	4.085

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Zone	Lumens	%Lamp	%Fixt
0-20	489.92	N.A.	12.90
0-30	1038.83	N.A.	27.30
0-40	1692.72	N.A.	44.40
0-60	3003.04	N.A.	78.80
0-80	3733.35	N.A.	98.00
0-90	3808.98	N.A.	100.00
10-90	3681.6	N.A.	96.70
20-40	1202.8	N.A.	31.60
20-50	1896.55	N.A.	49.80
40-70	1779.71	N.A.	46.70
60-80	730.31	N.A.	19.20
70-80	260.93	N.A.	6.90
80-90	75.62	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	3808.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.38
10-20	362.54
20-30	548.91
30-40	653.89
40-50	693.75
50-60	616.58
60-70	469.38
70-80	260.93
80-90	75.62
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	14.2	15.8	14.5	16.1	16.4	UGR Viewed Endwise	14.3	16.0	14.7	16.3	16.6
	3H	16.0	17.5	16.4	17.9	18.2		16.2	17.6	16.5	18.0	18.3
	4H	16.7	18.1	17.1	18.4	18.8		16.8	18.2	17.2	18.5	18.9
	6H	17.2	18.5	17.6	18.8	19.2		17.2	18.5	17.6	18.8	19.2
	8H	17.3	18.6	17.7	19.0	19.4		17.3	18.6	17.7	18.9	19.3
	12H	17.4	18.6	17.9	19.0	19.4		17.4	18.6	17.8	19.0	19.4

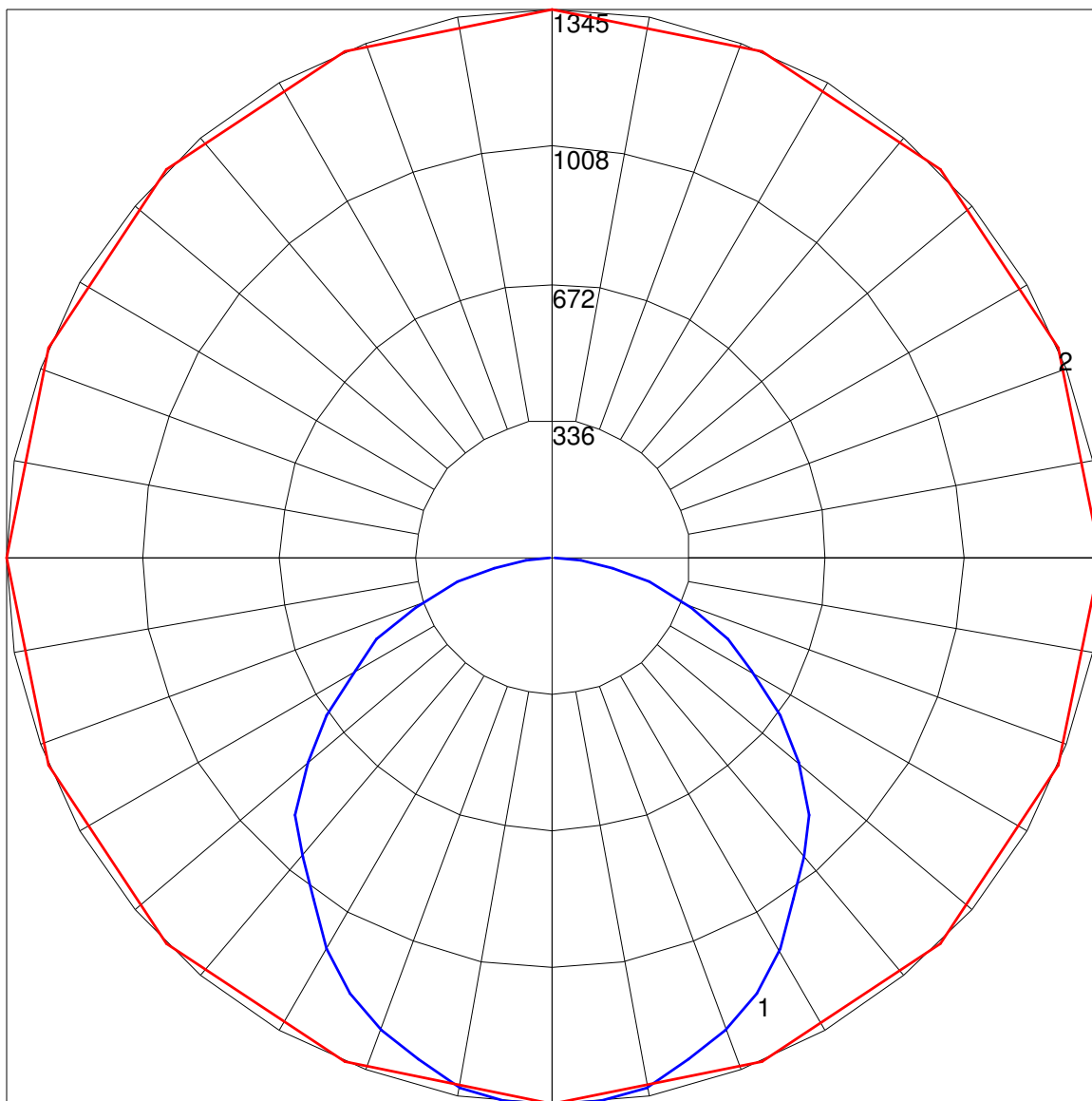
4H	2H	14.9	16.3	15.3	16.6	17.0	15.0	16.4	15.4	16.7	17.1
	3H	16.9	18.1	17.3	18.5	18.9	17.0	18.2	17.4	18.6	19.0
	4H	17.7	18.7	18.1	19.2	19.6	17.8	18.8	18.2	19.2	19.7
	6H	18.3	19.2	18.7	19.7	20.1	18.3	19.2	18.7	19.6	20.1
	8H	18.5	19.4	19.0	19.8	20.3	18.4	19.3	18.9	19.7	20.2
	12H	18.7	19.4	19.1	19.9	20.4	18.6	19.4	19.0	19.8	20.3

8H	4H	18.0	18.9	18.4	19.3	19.8	18.0	18.9	18.5	19.4	19.8
	6H	18.7	19.4	19.2	19.9	20.4	18.7	19.4	19.1	19.9	20.3
	8H	19.0	19.6	19.5	20.1	20.6	18.9	19.5	19.4	20.0	20.5
	12H	19.2	19.8	19.7	20.3	20.9	19.1	19.7	19.6	20.2	20.7

12H	4H	18.0	18.8	18.5	19.3	19.7	18.1	18.9	18.5	19.3	19.8
	6H	18.8	19.4	19.3	19.9	20.4	18.7	19.4	19.2	19.8	20.4
	8H	19.1	19.7	19.6	20.2	20.7	19.0	19.6	19.5	20.1	20.6

Maximum UGR = 20.9

POLAR GRAPH



Maximum Candela = 1344.553 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.)