



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_40W_5000K_.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_40W_5000K_
[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4794
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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)	1.40
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	2501	2537	2575
55	2352	2382	2415
65	2231	2247	2269
75	1865	1855	1855
85	1543	1497	1466

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_40W_5000K_.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1692.252	1692.252	1692.252	1692.252	1692.252
5	1687.111	1684.540	1684.540	1684.540	1684.540
10	1667.404	1666.547	1667.404	1669.974	1669.974
15	1607.425	1607.425	1610.852	1614.280	1615.137
20	1560.299	1560.299	1565.440	1569.724	1571.438
25	1495.179	1496.893	1503.748	1510.603	1512.316
30	1400.927	1403.498	1410.353	1420.635	1424.919
35	1293.823	1296.393	1307.532	1319.528	1323.812
40	1207.282	1212.423	1223.562	1236.415	1239.842
45	1126.740	1130.167	1143.020	1154.159	1160.156
50	994.787	998.214	1011.067	1019.635	1025.633
55	859.407	860.264	870.546	878.257	882.541
60	710.317	712.031	718.886	725.740	728.311
65	600.642	600.642	604.926	609.211	610.924
70	454.123	454.980	456.694	458.407	459.264
75	307.604	305.891	305.891	305.034	305.891
80	185.077	185.077	181.649	164.513	164.513
85	85.684	84.827	83.113	83.113	81.399
90	6.855	6.855	5.141	5.141	5.141

IES INDOOR REPORT**PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_40W_5000K_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	616.61	N.A.	12.90
0-30	1307.47	N.A.	27.30
0-40	2130.45	N.A.	44.40
0-60	3779.62	N.A.	78.80
0-80	4698.79	N.A.	98.00
0-90	4793.97	N.A.	100.00
10-90	4633.65	N.A.	96.70
20-40	1513.84	N.A.	31.60
20-50	2387.00	N.A.	49.80
40-70	2239.94	N.A.	46.70
60-80	919.17	N.A.	19.20
70-80	328.40	N.A.	6.90
80-90	95.18	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	4793.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.32
10-20	456.29
20-30	690.86
30-40	822.98
40-50	873.15
50-60	776.02
60-70	590.76
70-80	328.40
80-90	95.18
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-24-LS-8CS-DIM-UNV_40W_5000K_.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	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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_40W_5000K_.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	15.0	16.6	15.3	16.9	17.2	15.1	16.8	15.5	17.1	17.4
	3H	16.8	18.3	17.2	18.7	19.0	17.0	18.4	17.3	18.8	19.1
	4H	17.5	18.9	17.9	19.2	19.6	17.6	19.0	18.0	19.3	19.7
	6H	18.0	19.3	18.4	19.6	20.0	18.0	19.3	18.4	19.6	20.0
	8H	18.1	19.4	18.5	19.8	20.2	18.1	19.3	18.5	19.7	20.1
	12H	18.2	19.4	18.7	19.8	20.2	18.2	19.4	18.6	19.8	20.2

UGR Viewed Endwise

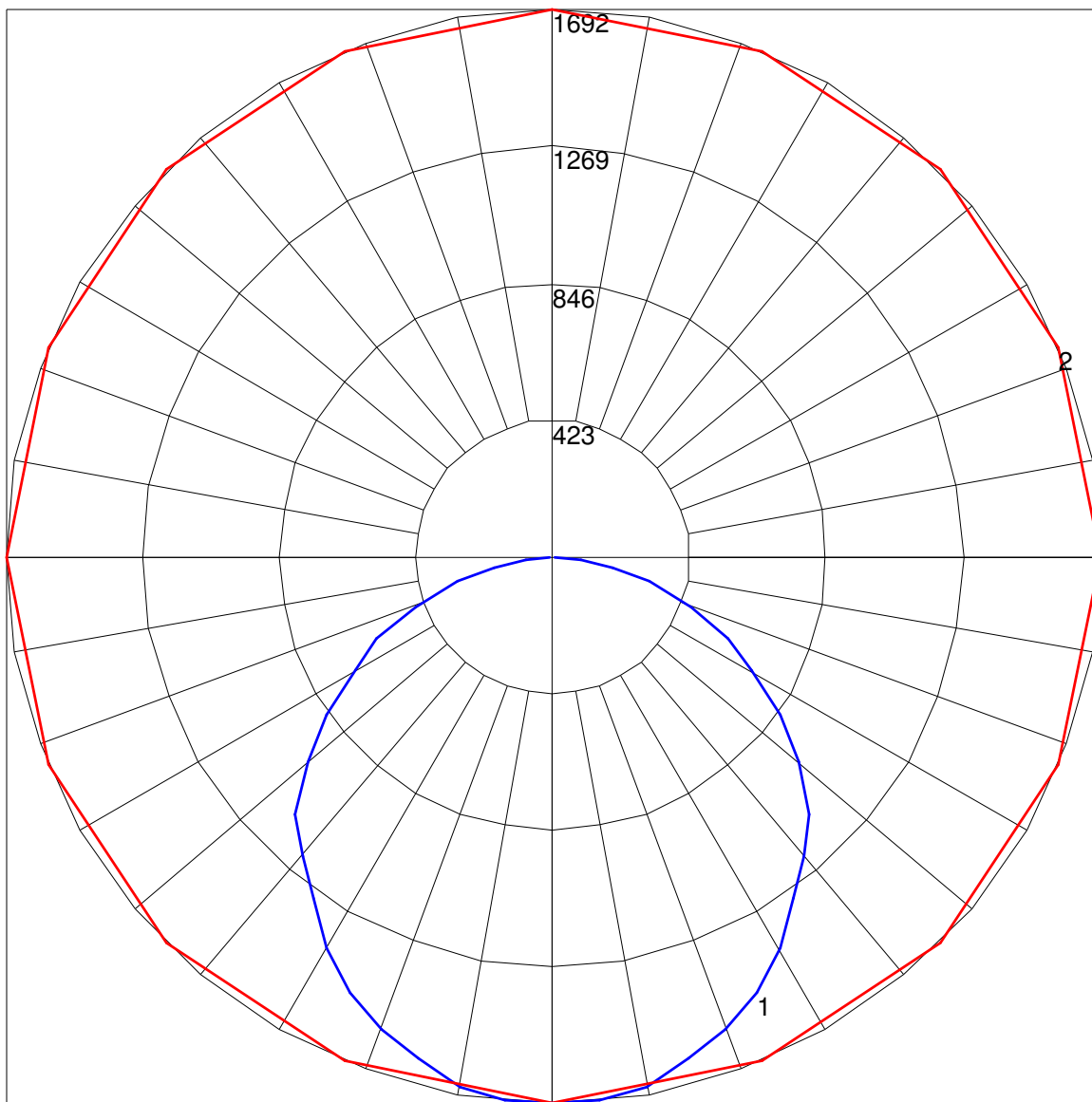
4H	2H	15.7	17.1	16.1	17.4	17.8	15.8	17.2	16.2	17.5	17.9
	3H	17.7	18.9	18.1	19.3	19.7	17.8	19.0	18.2	19.4	19.8
	4H	18.5	19.5	18.9	20.0	20.4	18.6	19.6	19.0	20.0	20.5
	6H	19.1	20.0	19.5	20.5	20.9	19.1	20.0	19.5	20.4	20.9
	8H	19.3	20.2	19.7	20.6	21.1	19.2	20.1	19.7	20.5	21.0
	12H	19.5	20.2	19.9	20.7	21.2	19.4	20.2	19.8	20.6	21.1

8H	4H	18.8	19.7	19.2	20.1	20.6	18.8	19.7	19.3	20.2	20.6
	6H	19.5	20.2	20.0	20.7	21.2	19.5	20.2	19.9	20.7	21.1
	8H	19.8	20.4	20.3	20.9	21.4	19.7	20.3	20.2	20.8	21.3
	12H	20.0	20.6	20.5	21.1	21.7	19.9	20.5	20.4	21.0	21.5

12H	4H	18.8	19.6	19.3	20.1	20.5	18.9	19.7	19.3	20.1	20.6
	6H	19.6	20.2	20.1	20.7	21.2	19.5	20.2	20.0	20.6	21.2
	8H	19.9	20.5	20.4	21.0	21.5	19.8	20.4	20.3	20.9	21.4

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 1692.252 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.)