



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_40W_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_40W_4000K_

[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4956
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	37.3
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	2586	2623	2662
55	2431	2463	2497
65	2306	2323	2346
75	1929	1918	1918
85	1595	1547	1515

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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	1749.437	1749.437	1749.437	1749.437	1749.437
5	1744.122	1741.465	1741.465	1741.465	1741.465
10	1723.749	1722.863	1723.749	1726.406	1726.406
15	1661.744	1661.744	1665.287	1668.830	1669.716
20	1613.025	1613.025	1618.340	1622.769	1624.540
25	1545.705	1547.477	1554.563	1561.649	1563.421
30	1448.268	1450.925	1458.012	1468.641	1473.070
35	1337.544	1340.202	1351.717	1364.118	1368.547
40	1248.079	1253.394	1264.909	1278.196	1281.739
45	1164.815	1168.358	1181.645	1193.160	1199.361
50	1028.403	1031.946	1045.233	1054.091	1060.292
55	888.448	889.334	899.964	907.936	912.365
60	734.321	736.092	743.179	750.265	752.922
65	620.939	620.939	625.368	629.797	631.569
70	469.469	470.355	472.127	473.898	474.784
75	317.999	316.227	316.227	315.342	316.227
80	191.331	191.331	187.788	170.072	170.072
85	88.579	87.693	85.922	85.922	84.150
90	7.086	7.086	5.315	5.315	5.315

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	637.44	N.A.	12.90
0-30	1351.65	N.A.	27.30
0-40	2202.44	N.A.	44.40
0-60	3907.35	N.A.	78.80
0-80	4857.57	N.A.	98.00
0-90	4955.97	N.A.	100.00
10-90	4790.23	N.A.	96.70
20-40	1565.00	N.A.	31.60
20-50	2467.66	N.A.	49.80
40-70	2315.63	N.A.	46.70
60-80	950.23	N.A.	19.20
70-80	339.50	N.A.	6.90
80-90	98.39	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	4955.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.74
10-20	471.70
20-30	714.21
30-40	850.79
40-50	902.66
50-60	802.25
60-70	610.73
70-80	339.50
80-90	98.39
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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Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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

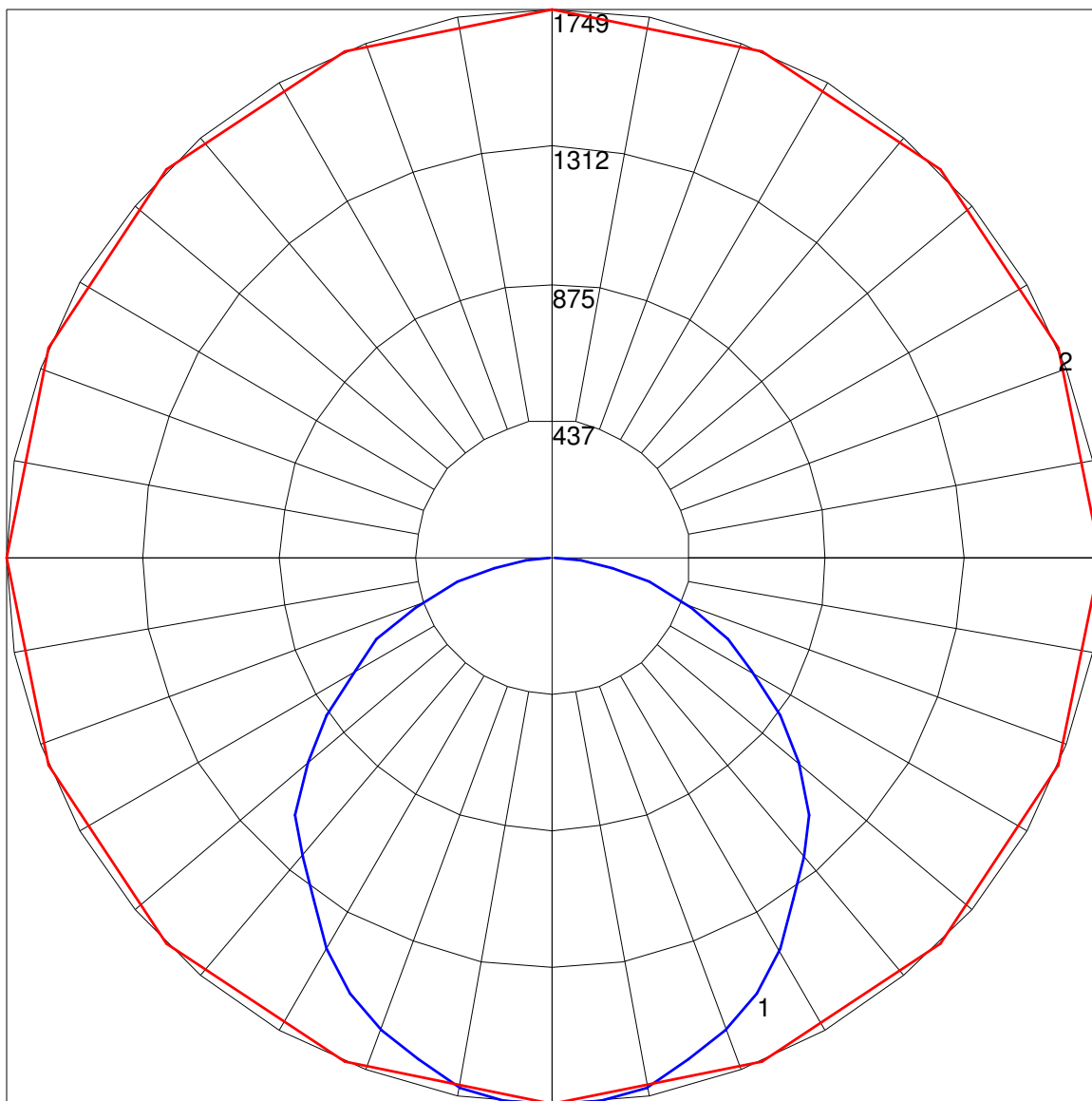
X=2H	Y=2H	15.2	16.8	15.5	17.1	17.4	15.3	17.0	15.7	17.3	17.6
	3H	17.0	18.5	17.4	18.9	19.2	17.2	18.6	17.5	19.0	19.3
	4H	17.7	19.1	18.1	19.4	19.8	17.8	19.2	18.2	19.5	19.9
	6H	18.2	19.5	18.6	19.8	20.2	18.2	19.5	18.6	19.8	20.2
	8H	18.3	19.6	18.7	20.0	20.4	18.3	19.5	18.7	19.9	20.3
	12H	18.4	19.6	18.9	20.0	20.4	18.4	19.6	18.8	20.0	20.4

UGR Viewed Endwise

4H	2H	15.9	17.3	16.3	17.6	18.0	16.0	17.4	16.4	17.7	18.1
	3H	17.9	19.1	18.3	19.5	19.9	18.0	19.2	18.4	19.6	20.0
	4H	18.7	19.7	19.1	20.2	20.6	18.8	19.8	19.2	20.2	20.7
	6H	19.3	20.2	19.7	20.7	21.1	19.3	20.2	19.7	20.6	21.1
	8H	19.5	20.4	19.9	20.8	21.3	19.4	20.3	19.9	20.7	21.2
	12H	19.7	20.4	20.1	20.9	21.4	19.6	20.4	20.0	20.8	21.3
8H	4H	19.0	19.9	19.4	20.3	20.8	19.0	19.9	19.5	20.4	20.8
	6H	19.7	20.4	20.2	20.9	21.4	19.7	20.4	20.1	20.9	21.3
	8H	20.0	20.6	20.5	21.1	21.6	19.9	20.5	20.4	21.0	21.5
	12H	20.2	20.8	20.7	21.3	21.9	20.1	20.7	20.6	21.2	21.7
12H	4H	19.0	19.8	19.5	20.3	20.7	19.1	19.9	19.5	20.3	20.8
	6H	19.8	20.4	20.3	20.9	21.4	19.7	20.4	20.2	20.8	21.4
	8H	20.1	20.7	20.6	21.2	21.7	20.0	20.6	20.5	21.1	21.6

Maximum UGR = 21.9

POLAR GRAPH



Maximum Candela = 1749.437 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.)