



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_40W_3500K_.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_3500K_

[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4700
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
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	2452	2488	2525
55	2306	2336	2368
65	2187	2203	2225
75	1829	1819	1819
85	1513	1467	1437

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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	1659.070	1659.070	1659.070	1659.070	1659.070
5	1654.030	1651.510	1651.510	1651.510	1651.510
10	1634.709	1633.869	1634.709	1637.230	1637.230
15	1575.907	1575.907	1579.267	1582.627	1583.467
20	1529.705	1529.705	1534.745	1538.945	1540.625
25	1465.862	1467.542	1474.263	1480.983	1482.663
30	1373.458	1375.978	1382.699	1392.779	1396.979
35	1268.454	1270.974	1281.894	1293.655	1297.855
40	1183.610	1188.650	1199.571	1212.171	1215.532
45	1104.647	1108.007	1120.608	1131.528	1137.408
50	975.281	978.642	991.242	999.642	1005.523
55	842.556	843.396	853.476	861.037	865.237
60	696.390	698.070	704.790	711.510	714.030
65	588.865	588.865	593.065	597.265	598.945
70	445.219	446.059	447.739	449.419	450.259
75	301.573	299.893	299.893	299.053	299.893
80	181.448	181.448	178.088	161.287	161.287
85	84.004	83.164	81.483	81.483	79.803
90	6.720	6.720	5.040	5.040	5.040

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Zone	Lumens	%Lamp	%Fixt
0-20	604.52	N.A.	12.90
0-30	1281.83	N.A.	27.30
0-40	2088.68	N.A.	44.40
0-60	3705.51	N.A.	78.80
0-80	4606.66	N.A.	98.00
0-90	4699.97	N.A.	100.00
10-90	4542.79	N.A.	96.70
20-40	1484.16	N.A.	31.60
20-50	2340.19	N.A.	49.80
40-70	2196.02	N.A.	46.70
60-80	901.14	N.A.	19.20
70-80	321.96	N.A.	6.90
80-90	93.31	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	4699.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.18
10-20	447.34
20-30	677.32
30-40	806.85
40-50	856.03
50-60	760.81
60-70	579.18
70-80	321.96
80-90	93.31
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	15.0	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

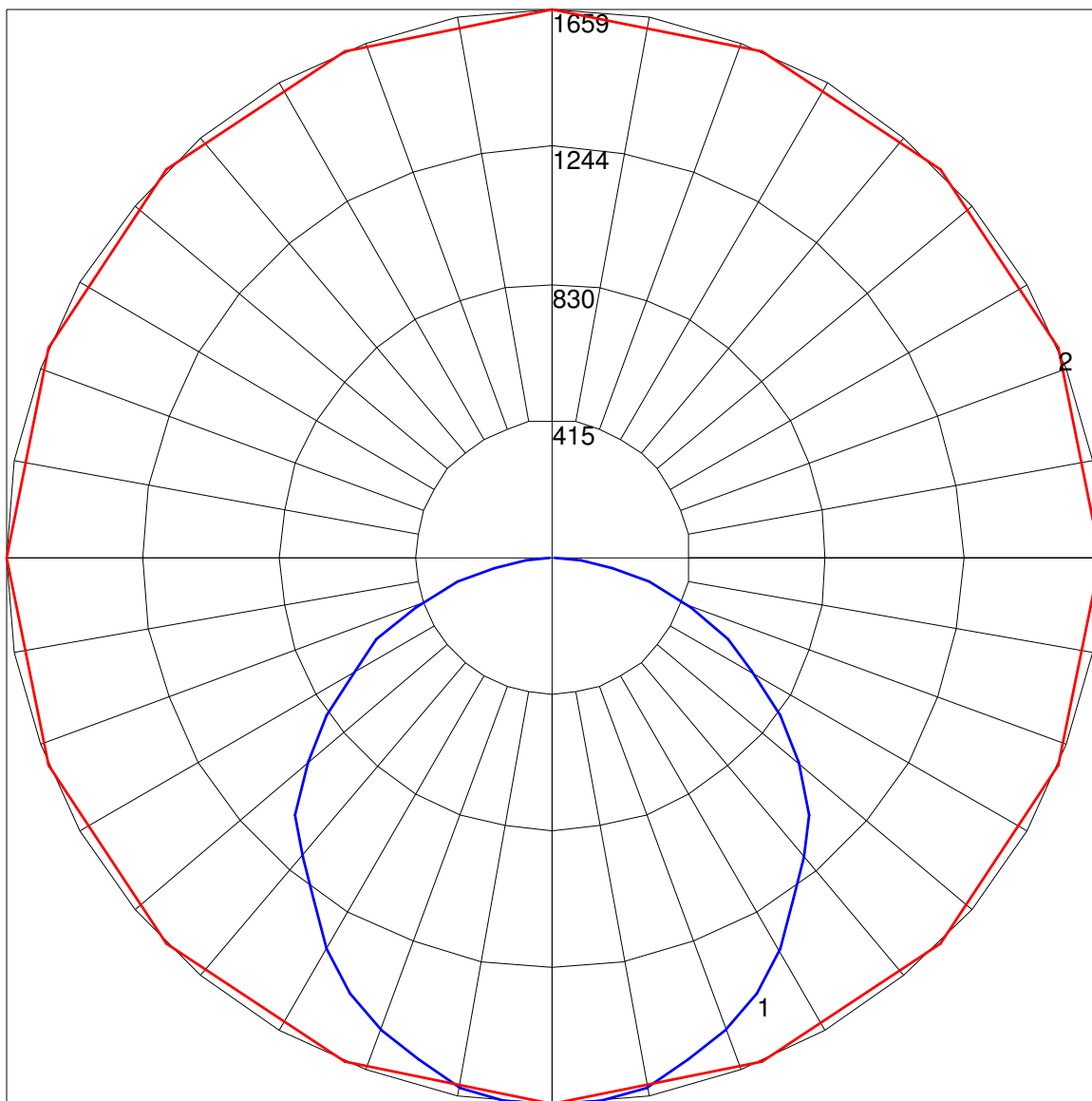
4H	2H	15.7	17.1	16.1	17.4	17.8	15.8	17.2	16.2	17.5	17.9
	3H	17.7	18.9	18.1	19.3	19.7	17.8	19.0	18.2	19.4	19.8
	4H	18.5	19.5	18.9	20.0	20.4	18.6	19.6	19.0	20.0	20.5
	6H	19.1	20.0	19.5	20.5	20.9	19.1	20.0	19.5	20.4	20.9
	8H	19.3	20.2	19.7	20.6	21.1	19.2	20.1	19.7	20.5	21.0
	12H	19.5	20.2	19.9	20.7	21.2	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 = 1659.07 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.)