



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_50W_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_50W_5000K_
[LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5810
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	48.6
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	3031	3075	3121
55	2850	2887	2927
65	2704	2723	2750
75	2261	2248	2248
85	1870	1814	1777

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2050.893	2050.893	2050.893	2050.893	2050.893
5	2044.663	2041.547	2041.547	2041.547	2041.547
10	2020.779	2019.741	2020.779	2023.894	2023.894
15	1948.089	1948.089	1952.243	1956.396	1957.435
20	1890.976	1890.976	1897.206	1902.398	1904.475
25	1812.055	1814.132	1822.439	1830.747	1832.824
30	1697.828	1700.943	1709.251	1721.712	1726.904
35	1568.025	1571.140	1584.640	1599.178	1604.370
40	1463.144	1469.374	1482.874	1498.450	1502.604
45	1365.531	1369.685	1385.262	1398.761	1406.030
50	1205.614	1209.767	1225.344	1235.728	1242.997
55	1041.542	1042.581	1055.042	1064.388	1069.580
60	860.856	862.933	871.240	879.548	882.663
65	727.937	727.937	733.129	738.322	740.398
70	550.366	551.405	553.482	555.558	556.597
75	372.795	370.718	370.718	369.680	370.718
80	224.300	224.300	220.147	199.378	199.378
85	103.843	102.804	100.727	100.727	98.651
90	8.307	8.307	6.231	6.231	6.231

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Zone	Lumens	%Lamp	%Fixt
0-20	747.28	N.A.	12.90
0-30	1584.56	N.A.	27.30
0-40	2581.96	N.A.	44.40
0-60	4580.65	N.A.	78.80
0-80	5694.61	N.A.	98.00
0-90	5809.96	N.A.	100.00
10-90	5615.67	N.A.	96.70
20-40	1834.67	N.A.	31.60
20-50	2892.88	N.A.	49.80
40-70	2714.65	N.A.	46.70
60-80	1113.97	N.A.	19.20
70-80	398.00	N.A.	6.90
80-90	115.35	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	5809.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.30
10-20	552.99
20-30	837.28
30-40	997.40
40-50	1058.2
50-60	940.49
60-70	715.96
70-80	398.00
80-90	115.35
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

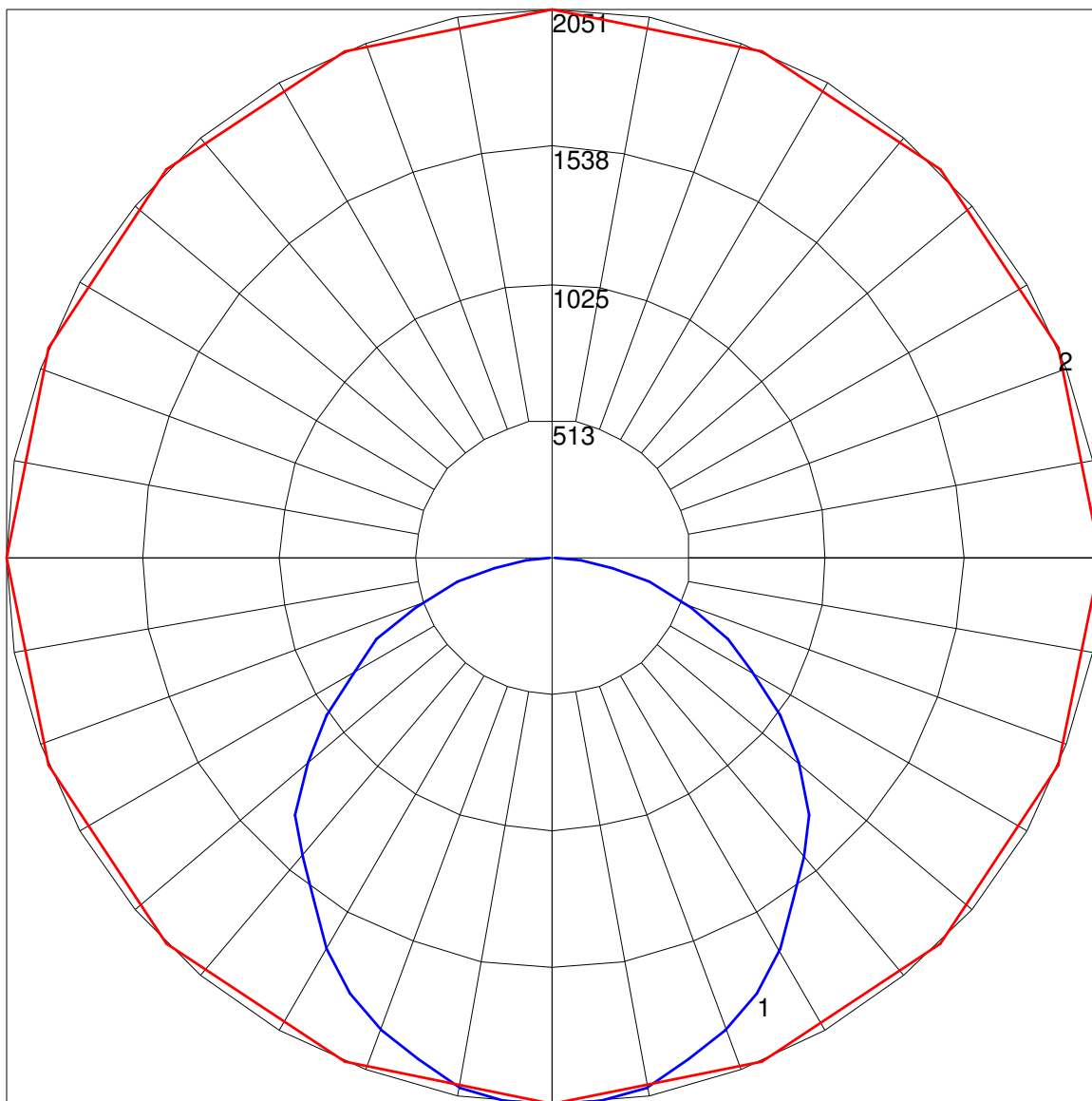
X=2H	Y=2H	15.7	17.3	16.0	17.6	17.9	15.8	17.5	16.2	17.8	18.1
	3H	17.5	19.0	17.9	19.4	19.7	17.7	19.1	18.0	19.5	19.8
	4H	18.2	19.6	18.6	19.9	20.3	18.3	19.7	18.7	20.0	20.4
	6H	18.7	20.0	19.1	20.3	20.7	18.7	20.0	19.1	20.3	20.7
	8H	18.8	20.1	19.2	20.5	20.9	18.8	20.0	19.2	20.4	20.8
	12H	18.9	20.1	19.4	20.5	20.9	18.9	20.1	19.3	20.5	20.9

UGR Viewed Endwise

4H	2H	16.4	17.8	16.8	18.1	18.5	16.5	17.9	16.9	18.2	18.6
	3H	18.4	19.6	18.8	20.0	20.4	18.5	19.7	18.9	20.1	20.5
	4H	19.2	20.2	19.6	20.7	21.1	19.3	20.3	19.7	20.7	21.2
	6H	19.8	20.7	20.2	21.2	21.6	19.8	20.7	20.2	21.1	21.6
	8H	20.0	20.9	20.4	21.3	21.8	19.9	20.8	20.4	21.2	21.7
	12H	20.2	20.9	20.6	21.4	21.9	20.1	20.9	20.5	21.3	21.8
8H	4H	19.5	20.4	19.9	20.8	21.3	19.5	20.4	20.0	20.9	21.3
	6H	20.2	20.9	20.7	21.4	21.9	20.2	20.9	20.6	21.4	21.8
	8H	20.5	21.1	21.0	21.6	22.1	20.4	21.0	20.9	21.5	22.0
	12H	20.7	21.3	21.2	21.8	22.4	20.6	21.2	21.1	21.7	22.2
12H	4H	19.5	20.3	20.0	20.8	21.2	19.6	20.4	20.0	20.8	21.3
	6H	20.3	20.9	20.8	21.4	21.9	20.2	20.9	20.7	21.3	21.9
	8H	20.6	21.2	21.1	21.7	22.2	20.5	21.1	21.0	21.6	22.1

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 2050.893 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.)