



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BP-24-LS-8CS-DIM-UNV_50W_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_50W_4000K_
 [LAMPCAT] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6071
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	47
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	3167	3213	3261
55	2978	3017	3058
65	2825	2845	2873
75	2362	2349	2349
85	1954	1896	1856

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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	2143.025	2143.025	2143.025	2143.025	2143.025
5	2136.515	2133.259	2133.259	2133.259	2133.259
10	2111.558	2110.473	2111.558	2114.813	2114.813
15	2035.603	2035.603	2039.943	2044.283	2045.368
20	1975.923	1975.923	1982.434	1987.859	1990.029
25	1893.458	1895.628	1904.308	1912.989	1915.159
30	1774.099	1777.354	1786.035	1799.056	1804.481
35	1638.465	1641.720	1655.826	1671.017	1676.442
40	1528.872	1535.383	1549.488	1565.765	1570.105
45	1426.875	1431.215	1447.491	1461.597	1469.193
50	1259.773	1264.114	1280.390	1291.240	1298.836
55	1088.331	1089.416	1102.437	1112.203	1117.628
60	899.528	901.698	910.379	919.059	922.315
65	760.638	760.638	766.064	771.489	773.659
70	575.090	576.175	578.345	580.516	581.601
75	389.542	387.372	387.372	386.287	387.372
80	234.376	234.376	230.036	208.335	208.335
85	108.508	107.423	105.252	105.252	103.082
90	8.681	8.681	6.510	6.510	6.510

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Zone	Lumens	%Lamp	%Fixt
0-20	780.85	N.A.	12.90
0-30	1655.74	N.A.	27.30
0-40	2697.95	N.A.	44.40
0-60	4786.42	N.A.	78.80
0-80	5950.43	N.A.	98.00
0-90	6070.96	N.A.	100.00
10-90	5867.94	N.A.	96.70
20-40	1917.09	N.A.	31.60
20-50	3022.83	N.A.	49.80
40-70	2836.6	N.A.	46.70
60-80	1164.01	N.A.	19.20
70-80	415.88	N.A.	6.90
80-90	120.53	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	6070.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	203.03
10-20	577.83
20-30	874.89
30-40	1042.2
40-50	1105.74
50-60	982.74
60-70	748.13
70-80	415.88
80-90	120.53
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	15.9	17.5	16.2	17.8	18.1	UGR Viewed Endwise	16.0	17.7	16.4	18.0	18.3
	3H	17.7	19.2	18.1	19.6	19.9		17.9	19.3	18.2	19.7	20.0
	4H	18.4	19.8	18.8	20.1	20.5		18.5	19.9	18.9	20.2	20.6
	6H	18.9	20.2	19.3	20.5	20.9		18.9	20.2	19.3	20.5	20.9
	8H	19.0	20.3	19.4	20.7	21.1		19.0	20.2	19.4	20.6	21.0
	12H	19.1	20.3	19.6	20.7	21.1		19.1	20.3	19.5	20.7	21.1

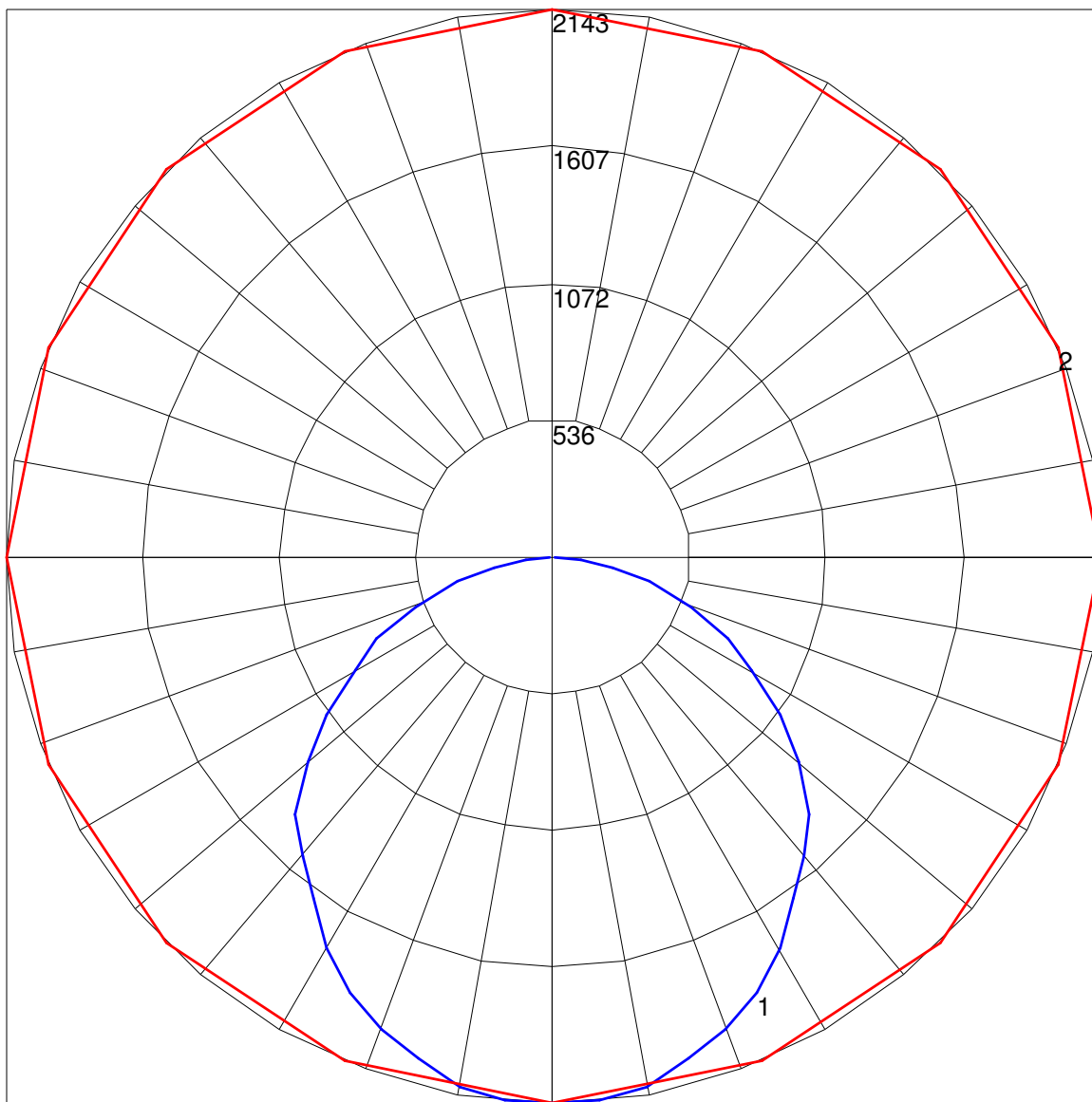
4H	2H	16.6	18.0	17.0	18.3	18.7		16.7	18.1	17.1	18.4	18.8
	3H	18.6	19.8	19.0	20.2	20.6		18.7	19.9	19.1	20.3	20.7
	4H	19.4	20.4	19.8	20.9	21.3		19.5	20.5	19.9	20.9	21.4
	6H	20.0	20.9	20.4	21.4	21.8		20.0	20.9	20.4	21.3	21.8
	8H	20.2	21.1	20.6	21.5	22.0		20.1	21.0	20.6	21.4	21.9
	12H	20.4	21.1	20.8	21.6	22.1		20.3	21.1	20.7	21.5	22.0

8H	4H	19.7	20.6	20.1	21.0	21.5		19.7	20.6	20.2	21.1	21.5
	6H	20.4	21.1	20.9	21.6	22.1		20.4	21.1	20.8	21.6	22.0
	8H	20.7	21.3	21.2	21.8	22.3		20.6	21.2	21.1	21.7	22.2
	12H	20.9	21.5	21.4	22.0	22.6		20.8	21.4	21.3	21.9	22.4

12H	4H	19.7	20.5	20.2	21.0	21.4		19.8	20.6	20.2	21.0	21.5
	6H	20.5	21.1	21.0	21.6	22.1		20.4	21.1	20.9	21.5	22.1
	8H	20.8	21.4	21.3	21.9	22.4		20.7	21.3	21.2	21.8	22.3

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 2143.025 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.)