



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L33-835-SAF12125-(L24)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18125.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 02-JUNE-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 2x4' RECESSED LED LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN
 [LUMCAT] 50G-S24-L33-835-SAF12125-(L24)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2421
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	17.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1313	1295	1277
55	1084	1047	1015
65	871	819	808
75	706	676	714
85	705	705	832

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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	1090.171	1090.171	1090.171	1090.171	1090.171
5	1079.440	1078.737	1077.857	1077.329	1077.329
10	1059.913	1058.682	1059.561	1059.913	1059.913
15	1016.637	1016.637	1016.637	1017.869	1018.396
20	978.814	978.814	980.046	981.805	980.046
25	896.308	895.429	898.068	899.651	899.299
30	825.765	824.885	826.644	826.644	828.404
35	742.907	742.555	741.148	740.796	744.138
40	657.410	655.827	652.308	649.494	651.957
45	576.663	574.552	568.571	563.469	560.655
50	474.278	470.056	465.306	457.390	452.640
55	385.967	379.458	373.125	363.449	361.690
60	298.711	293.609	285.517	277.952	277.073
65	228.695	224.473	214.973	212.159	212.159
70	166.595	164.133	156.040	159.031	159.383
75	113.468	111.709	108.718	112.588	114.699
80	76.525	75.293	75.293	78.636	81.099
85	38.174	36.943	38.174	43.276	45.035
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	390.17	N.A.	16.10
0-30	805.30	N.A.	33.30
0-40	1269.00	N.A.	52.40
0-60	2038.09	N.A.	84.20
0-80	2378.23	N.A.	98.20
0-90	2420.97	N.A.	100.00
10-90	2318.58	N.A.	95.80
20-40	878.83	N.A.	36.30
20-50	1313.78	N.A.	54.30
40-70	987.53	N.A.	40.80
60-80	340.13	N.A.	14.00
70-80	121.69	N.A.	5.00
80-90	42.75	N.A.	1.80
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	2420.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.39
10-20	287.78
20-30	415.12
30-40	463.71
40-50	434.95
50-60	334.15
60-70	218.44
70-80	121.69
80-90	42.75
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	54
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	46	58	50	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

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UGR TABLE - CORRECTED

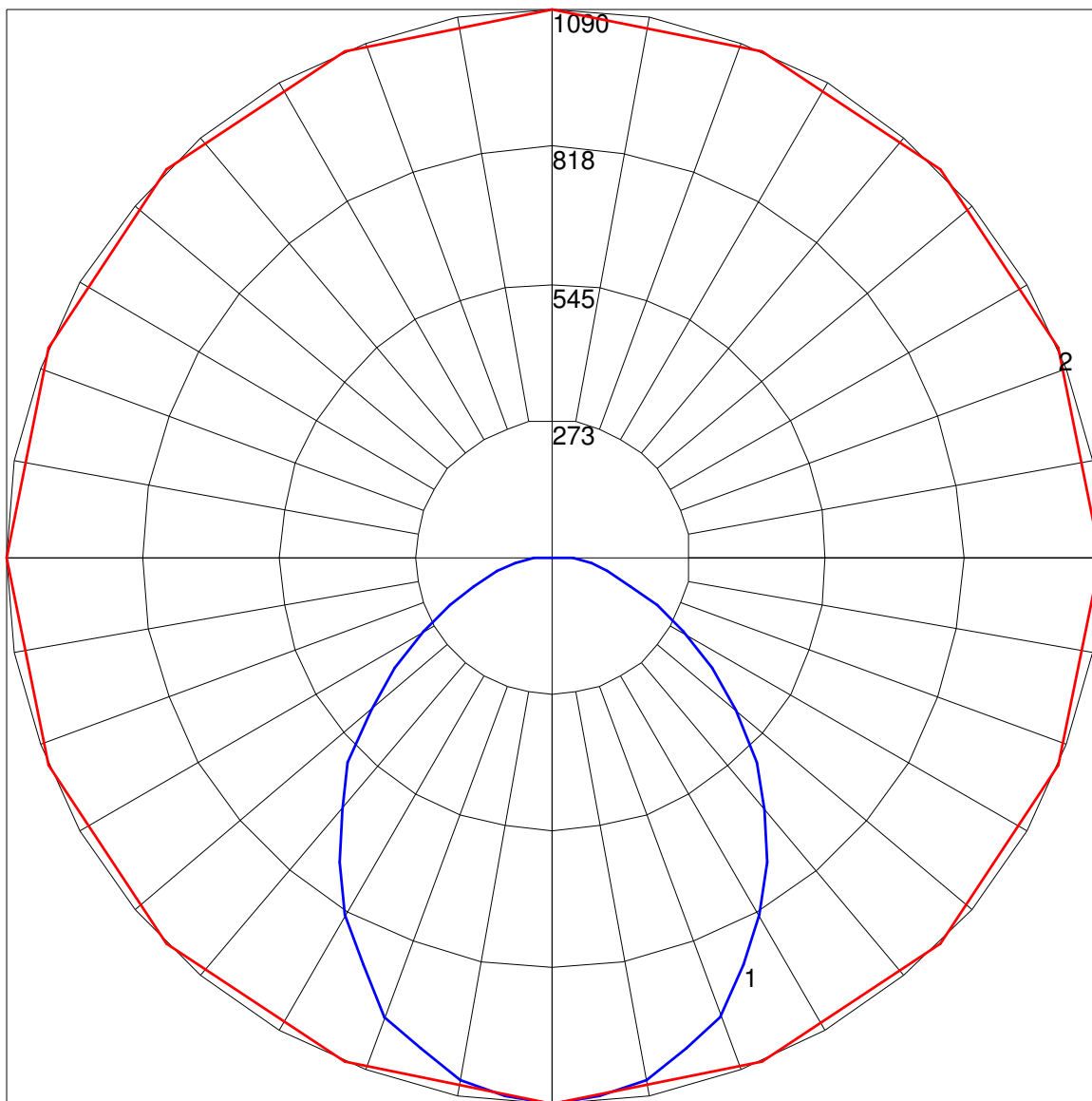
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	11.8	13.3	12.1	13.6	13.9	11.4	12.9	11.8	13.2	13.6
	3H	13.2	14.6	13.6	14.9	15.3	12.8	14.2	13.2	14.6	14.9
	4H	13.7	15.0	14.1	15.4	15.8	13.4	14.7	13.8	15.1	15.5
	6H	14.2	15.4	14.6	15.8	16.2	14.0	15.2	14.4	15.5	15.9
	8H	14.4	15.5	14.8	15.9	16.3	14.2	15.4	14.6	15.7	16.1
	12H	14.5	15.6	14.9	16.0	16.4	14.4	15.5	14.8	15.9	16.3
4H	2H	12.2	13.5	12.6	13.8	14.2	11.9	13.2	12.3	13.5	13.9
	3H	13.8	14.9	14.3	15.3	15.7	13.6	14.7	14.0	15.1	15.5
	4H	14.5	15.5	14.9	15.9	16.3	14.3	15.3	14.7	15.7	16.1
	6H	15.1	16.0	15.6	16.4	16.9	15.0	15.8	15.5	16.3	16.7
	8H	15.4	16.2	15.8	16.6	17.1	15.3	16.1	15.8	16.5	17.0
	12H	15.6	16.3	16.1	16.8	17.2	15.6	16.3	16.1	16.8	17.2
8H	4H	14.8	15.6	15.2	16.0	16.5	14.6	15.4	15.0	15.8	16.3
	6H	15.5	16.2	16.0	16.7	17.1	15.4	16.1	15.9	16.6	17.0
	8H	15.8	16.4	16.4	17.0	17.4	15.8	16.4	16.3	16.9	17.4
	12H	16.1	16.7	16.6	17.2	17.7	16.2	16.7	16.7	17.2	17.8
12H	4H	14.8	15.5	15.3	16.0	16.5	14.6	15.3	15.1	15.8	16.3
	6H	15.6	16.2	16.1	16.7	17.2	15.5	16.1	16.0	16.6	17.1
	8H	16.0	16.5	16.5	17.0	17.6	15.9	16.5	16.5	17.0	17.5

Maximum UGR = 17.8

POLAR GRAPH



Maximum Candela = 1090.171 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.)