



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S24-L33-940-SAF12125-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] 09-06-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 2 x 4 RECESSED LED LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN
 [LUMCAT] 50G-S24-L33-940-SAF12125-DIM-UNV
 [LAMPCAT] HLM 90 CRI 4000K 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	2983
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	25
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	1618	1595	1573
55	1335	1291	1251
65	1074	1009	996
75	870	833	879
85	869	869	1025

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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	1343.374	1343.374	1343.374	1343.374	1343.374
5	1330.150	1329.283	1328.199	1327.549	1327.549
10	1306.088	1304.571	1305.654	1306.088	1306.088
15	1252.761	1252.761	1252.761	1254.278	1254.928
20	1206.153	1206.153	1207.671	1209.839	1207.671
25	1104.484	1103.401	1106.652	1108.603	1108.170
30	1017.556	1016.473	1018.640	1018.640	1020.808
35	915.454	915.020	913.286	912.853	916.971
40	810.100	808.149	803.813	800.345	803.380
45	710.599	707.997	700.627	694.340	690.872
50	584.434	579.231	573.378	563.623	557.770
55	475.611	467.590	459.786	447.864	445.696
60	368.089	361.803	351.831	342.509	341.426
65	281.812	276.609	264.903	261.434	261.434
70	205.289	202.254	192.282	195.967	196.401
75	139.822	137.654	133.969	138.738	141.339
80	94.298	92.781	92.781	96.900	99.935
85	47.041	45.523	47.041	53.327	55.495
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	480.79	N.A.	16.10
0-30	992.33	N.A.	33.30
0-40	1563.74	N.A.	52.40
0-60	2511.46	N.A.	84.20
0-80	2930.59	N.A.	98.20
0-90	2983.27	N.A.	100.00
10-90	2857.1	N.A.	95.80
20-40	1082.94	N.A.	36.30
20-50	1618.91	N.A.	54.30
40-70	1216.89	N.A.	40.80
60-80	419.13	N.A.	14.00
70-80	149.96	N.A.	5.00
80-90	52.67	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	2983.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.17
10-20	354.62
20-30	511.54
30-40	571.41
40-50	535.97
50-60	411.75
60-70	269.17
70-80	149.96
80-90	52.67
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

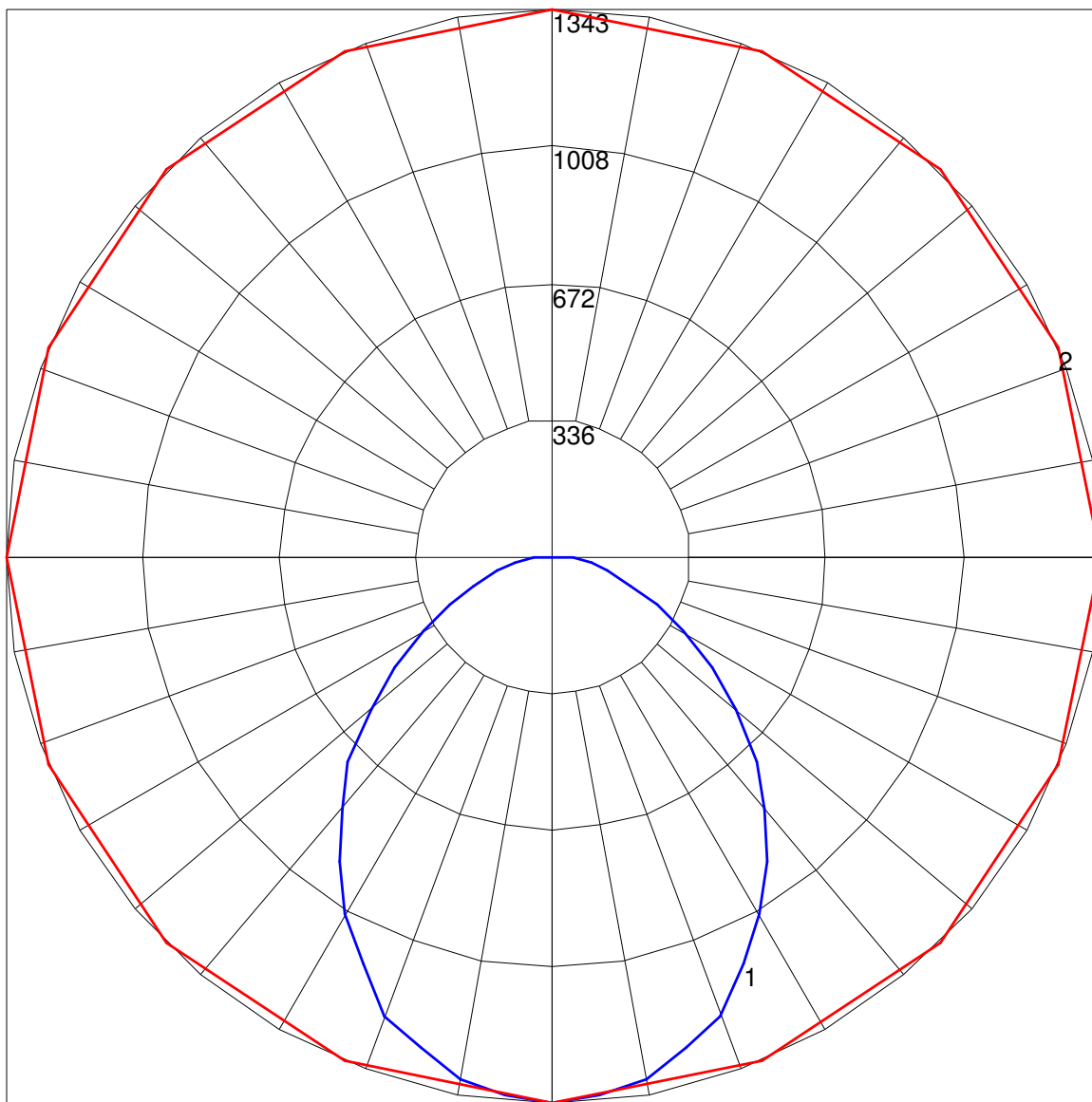
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UGR TABLE - CORRECTED

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	12.5	14.0	12.8	14.3	14.6	12.1	13.6	12.5	13.9	14.3
	3H	13.9	15.3	14.3	15.6	16.0	13.6	14.9	13.9	15.3	15.6
	4H	14.4	15.7	14.8	16.1	16.5	14.1	15.4	14.5	15.8	16.2
	6H	14.9	16.1	15.3	16.5	16.9	14.7	15.9	15.1	16.2	16.6
	8H	15.1	16.2	15.5	16.6	17.0	14.9	16.1	15.3	16.4	16.8
	12H	15.2	16.3	15.6	16.7	17.1	15.1	16.2	15.5	16.6	17.0
4H	2H	12.9	14.2	13.3	14.5	14.9	12.6	13.9	13.0	14.2	14.6
	3H	14.5	15.6	15.0	16.0	16.4	14.3	15.4	14.7	15.8	16.2
	4H	15.2	16.2	15.7	16.6	17.0	15.0	16.0	15.4	16.4	16.8
	6H	15.8	16.7	16.3	17.1	17.6	15.7	16.5	16.2	17.0	17.5
	8H	16.1	16.9	16.5	17.3	17.8	16.0	16.8	16.5	17.2	17.7
	12H	16.3	17.0	16.8	17.5	17.9	16.3	17.0	16.8	17.5	17.9
8H	4H	15.5	16.3	15.9	16.7	17.2	15.3	16.1	15.7	16.5	17.0
	6H	16.2	16.9	16.7	17.4	17.8	16.1	16.8	16.6	17.3	17.7
	8H	16.5	17.1	17.1	17.7	18.1	16.5	17.1	17.0	17.6	18.1
	12H	16.8	17.4	17.3	17.9	18.4	16.9	17.4	17.4	17.9	18.5
12H	4H	15.5	16.2	16.0	16.7	17.2	15.3	16.0	15.8	16.5	17.0
	6H	16.3	16.9	16.8	17.4	17.9	16.2	16.8	16.7	17.3	17.8
	8H	16.7	17.2	17.2	17.7	18.3	16.6	17.2	17.2	17.7	18.2

Maximum UGR = 18.5

POLAR GRAPH



Maximum Candela = 1343.374 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.)