



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L65-835-SAF12125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18124.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 31-JAN-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMINAIRE] 144 LEDS (2 BOARDS) 2x2' RECESSED TROFFER LUMINAIRE
 [MORE] WHITE REFLECTOR w/PAT 12 LENS PRISMS DOWN
 [LUMCAT] 50G-S22-L65-835-SAF12125-DIM-UNV
 [_SEARCH_SOURCE TYPE]LED
 [_SEARCH_APPLICATION]INDOOR,DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6513
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	54.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.77 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	7225	7375	7679
55	5952	6002	6180
65	4737	4637	4837
75	4147	3997	3983
85	4091	3767	3848

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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	2842.036	2842.036	2842.036	2842.036	2842.036
5	2837.917	2835.857	2829.679	2823.501	2821.441
10	2780.252	2782.312	2782.312	2777.163	2786.431
15	2729.796	2733.915	2748.331	2746.271	2760.687
20	2518.703	2543.416	2552.683	2564.010	2587.694
25	2399.255	2430.146	2444.563	2462.068	2495.019
30	2211.845	2232.440	2264.361	2280.837	2327.174
35	1980.157	1993.544	2033.703	2070.773	2114.021
40	1738.173	1745.381	1781.421	1818.491	1864.828
45	1490.009	1488.980	1520.901	1538.406	1583.714
50	1238.757	1239.787	1263.470	1258.322	1305.689
55	995.742	997.802	1003.980	999.861	1033.842
60	769.203	767.144	767.144	756.846	788.768
65	583.853	574.585	571.496	568.407	596.210
70	435.573	426.305	420.127	421.157	429.395
75	313.036	306.857	301.709	298.620	300.679
80	204.915	203.885	200.796	193.588	194.618
85	104.002	108.121	95.764	95.764	97.824
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1032.78	N.A.	15.90
0-30	2152.88	N.A.	33.10
0-40	3423.64	N.A.	52.60
0-60	5499.29	N.A.	84.40
0-80	6404.45	N.A.	98.30
0-90	6513.29	N.A.	100.00
10-90	6244.77	N.A.	95.90
20-40	2390.86	N.A.	36.70
20-50	3565.05	N.A.	54.70
40-70	2655.8	N.A.	40.80
60-80	905.16	N.A.	13.90
70-80	325.02	N.A.	5.00
80-90	108.84	N.A.	1.70
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	6513.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	268.53
10-20	764.25
20-30	1120.11
30-40	1270.75
40-50	1174.19
50-60	901.47
60-70	580.14
70-80	325.02
80-90	108.84
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	295	295	295	295	288	288	288	288	275	275	275	263	263	263	253	253	253	248
1	272	261	251	242	265	255	246	238	245	237	231	235	229	224	226	221	217	212
2	249	230	215	201	243	226	211	199	217	205	194	209	199	190	202	193	186	181
3	229	204	186	171	223	201	183	169	193	178	166	187	174	163	180	170	161	155
4	211	183	162	147	205	180	161	146	174	157	144	168	154	142	163	150	140	135
5	195	165	144	128	190	162	142	128	157	139	126	152	137	125	148	134	124	119
6	181	149	128	113	176	147	127	113	143	125	112	139	123	111	135	121	110	105
7	168	136	115	101	164	134	115	101	130	113	100	127	111	99	124	109	98	94
8	157	125	105	91	153	123	104	90	120	102	90	117	101	89	114	100	89	84
9	147	115	95	82	143	114	95	82	111	94	82	108	92	81	106	91	81	76
10	138	106	88	75	135	105	87	75	103	86	75	100	85	74	98	84	74	70

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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

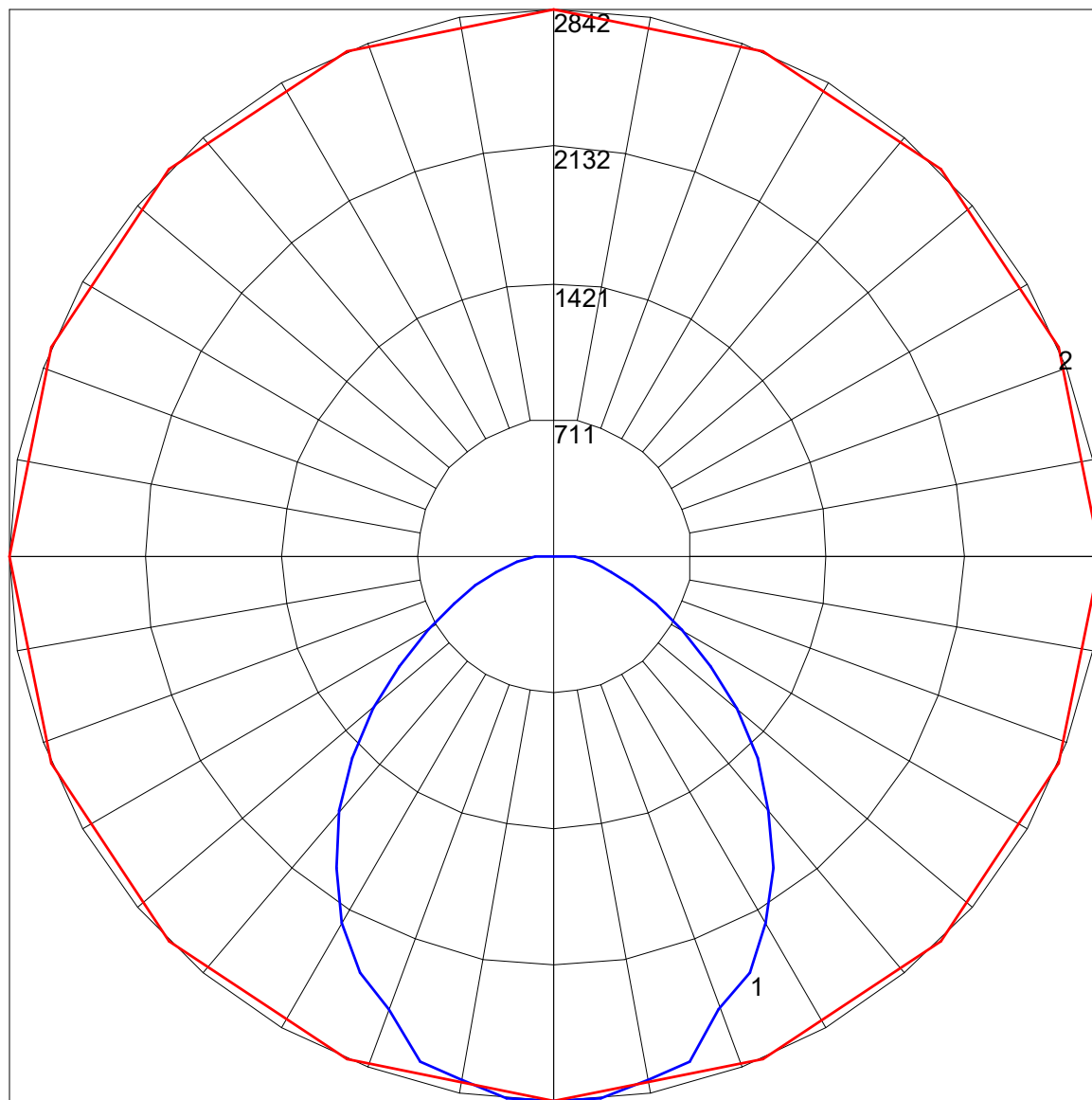
X=2H	Y=2H	14.5	16.0	14.9	16.3	16.6	14.5	16.0	14.9	16.3	16.7
	3H	15.9	17.3	16.3	17.6	18.0	15.9	17.3	16.3	17.6	18.0
	4H	16.5	17.8	16.9	18.1	18.5	16.4	17.7	16.8	18.1	18.5
	6H	17.0	18.2	17.4	18.5	18.9	16.9	18.1	17.3	18.5	18.8
	8H	17.2	18.3	17.6	18.7	19.1	17.1	18.2	17.5	18.6	19.0
	12H	17.3	18.4	17.7	18.8	19.2	17.2	18.3	17.6	18.7	19.1

UGR Viewed Endwise

4H	2H	14.9	16.2	15.3	16.6	17.0	14.9	16.2	15.3	16.6	17.0
	3H	16.6	17.7	17.0	18.1	18.5	16.6	17.7	17.0	18.1	18.5
	4H	17.3	18.3	17.7	18.7	19.1	17.3	18.2	17.7	18.6	19.1
	6H	18.0	18.8	18.4	19.2	19.7	17.9	18.7	18.3	19.1	19.6
	8H	18.2	19.0	18.7	19.4	19.9	18.1	18.9	18.6	19.3	19.8
	12H	18.4	19.1	18.9	19.6	20.1	18.3	19.0	18.8	19.5	19.9
8H	4H	17.6	18.4	18.0	18.8	19.3	17.5	18.3	18.0	18.8	19.2
	6H	18.4	19.0	18.9	19.5	20.0	18.3	18.9	18.8	19.4	19.9
	8H	18.7	19.3	19.2	19.8	20.3	18.6	19.2	19.1	19.7	20.2
	12H	19.0	19.6	19.6	20.1	20.6	18.9	19.4	19.4	19.9	20.4
12H	4H	17.6	18.3	18.1	18.8	19.3	17.6	18.3	18.0	18.7	19.2
	6H	18.4	19.0	19.0	19.5	20.0	18.3	18.9	18.9	19.4	19.9
	8H	18.9	19.4	19.4	19.9	20.4	18.7	19.2	19.2	19.7	20.3

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 2842.036 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.)