



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 50G-S22-L65-935-SA12125-DRV-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
 [ISSUEDATE] 02-17-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2x2' LED TROFFER
 [MORE] WITH ACRYLIC LENS
 [LUMCAT] 50G-S22-L65-935-SA12125-DRV-UNV
 [LAMPCAT] HLM 902 CRI, 3500K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,CLASSROOM, COMMERCIAL, EDUCATIONAL,OFFICE, DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5352
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
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	5937	6060	6310
55	4891	4932	5078
65	3892	3810	3975
75	3408	3284	3273
85	3362	3096	3162

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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	2335.418	2335.418	2335.418	2335.418	2335.418
5	2332.034	2330.341	2325.264	2320.187	2318.495
10	2284.648	2286.341	2286.341	2282.110	2289.725
15	2243.186	2246.571	2258.417	2256.725	2268.571
20	2069.722	2090.030	2097.646	2106.953	2126.415
25	1971.567	1996.952	2008.798	2023.183	2050.260
30	1817.565	1834.488	1860.719	1874.258	1912.335
35	1627.177	1638.177	1671.178	1701.640	1737.179
40	1428.328	1434.251	1463.867	1494.329	1532.407
45	1224.402	1223.556	1249.787	1264.172	1301.403
50	1017.938	1018.784	1038.246	1034.015	1072.939
55	818.243	819.935	825.012	821.627	849.551
60	632.086	630.394	630.394	621.932	648.163
65	479.776	472.161	469.622	467.084	489.930
70	357.928	350.313	345.236	346.082	352.851
75	257.234	252.157	247.927	245.388	247.080
80	168.387	167.541	165.002	159.079	159.925
85	85.463	88.847	78.693	78.693	80.386
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	848.67	N.A.	15.90
0-30	1769.11	N.A.	33.10
0-40	2813.34	N.A.	52.60
0-60	4518.99	N.A.	84.40
0-80	5262.8	N.A.	98.30
0-90	5352.24	N.A.	100.00
10-90	5131.58	N.A.	95.90
20-40	1964.67	N.A.	36.70
20-50	2929.55	N.A.	54.70
40-70	2182.38	N.A.	40.80
60-80	743.81	N.A.	13.90
70-80	267.08	N.A.	5.00
80-90	89.44	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	5352.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	220.66
10-20	628.02
20-30	920.44
30-40	1044.23
40-50	964.88
50-60	740.77
60-70	476.73
70-80	267.08
80-90	89.44
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	93	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	67	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	54	42	35	30	41	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

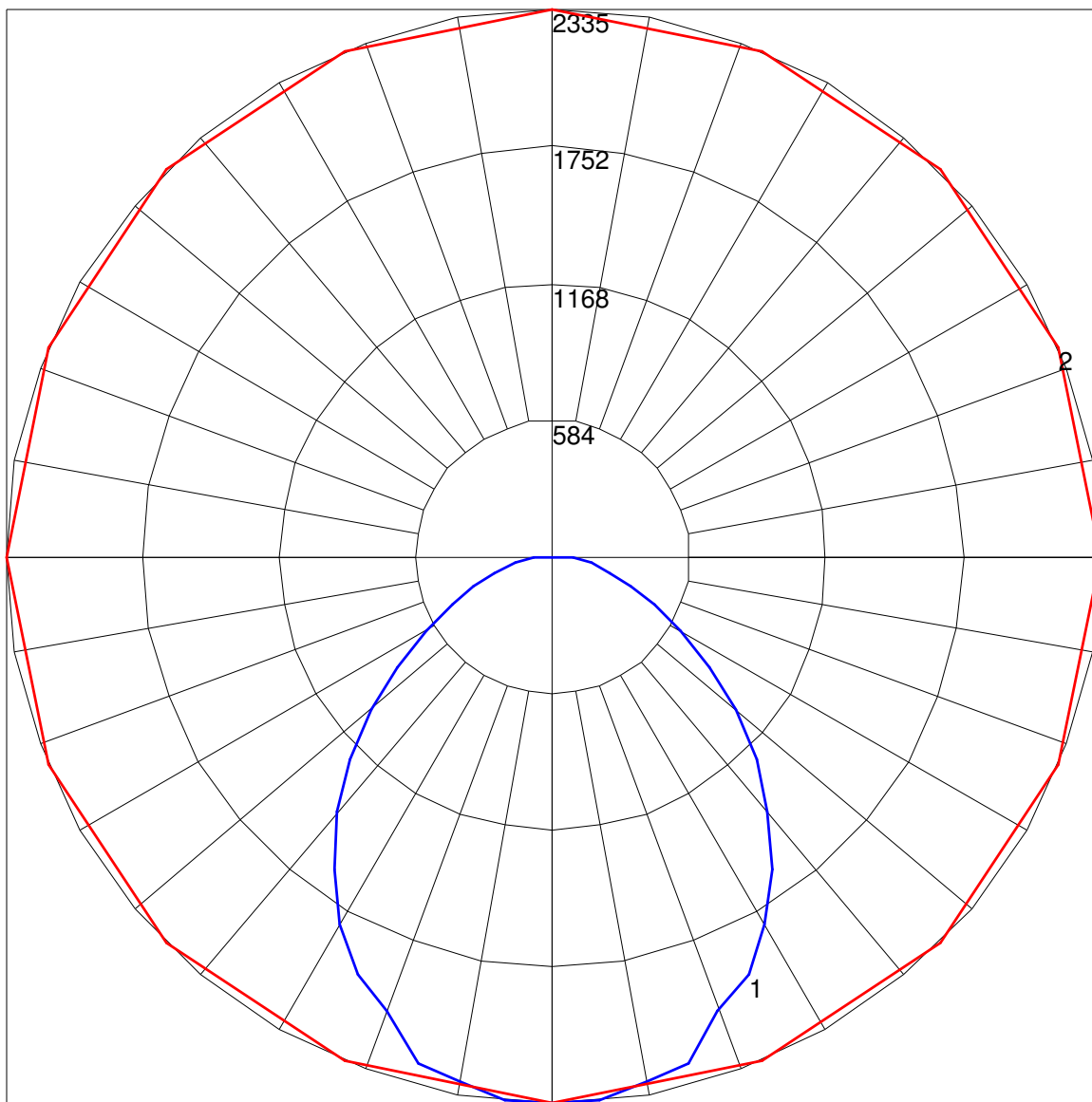
X=2H	Y=2H	16.9	18.4	17.3	18.7	19.0	16.9	18.4	17.3	18.7	19.1
	3H	18.3	19.7	18.7	20.0	20.4	18.3	19.7	18.7	20.0	20.4
	4H	18.9	20.2	19.3	20.5	20.9	18.8	20.1	19.2	20.5	20.9
	6H	19.4	20.6	19.8	20.9	21.3	19.3	20.5	19.7	20.9	21.2
	8H	19.6	20.7	20.0	21.1	21.5	19.5	20.6	19.9	21.0	21.4
	12H	19.7	20.8	20.1	21.2	21.6	19.6	20.7	20.0	21.1	21.5

UGR Viewed Endwise

4H	2H	17.3	18.6	17.7	19.0	19.4	17.3	18.6	17.7	19.0	19.4
	3H	19.0	20.1	19.4	20.5	20.9	19.0	20.1	19.4	20.5	20.9
	4H	19.7	20.7	20.1	21.1	21.5	19.7	20.6	20.1	21.0	21.5
	6H	20.4	21.2	20.8	21.6	22.1	20.3	21.1	20.7	21.5	22.0
	8H	20.6	21.4	21.1	21.8	22.3	20.5	21.3	21.0	21.7	22.2
	12H	20.8	21.5	21.3	22.0	22.5	20.7	21.4	21.2	21.9	22.3
8H	4H	20.0	20.8	20.4	21.2	21.7	19.9	20.7	20.4	21.2	21.6
	6H	20.8	21.4	21.3	21.9	22.4	20.7	21.3	21.2	21.8	22.3
	8H	21.1	21.7	21.6	22.2	22.7	21.0	21.6	21.5	22.1	22.6
	12H	21.4	22.0	22.0	22.5	23.0	21.3	21.8	21.8	22.3	22.8
12H	4H	20.0	20.7	20.5	21.2	21.7	20.0	20.7	20.4	21.1	21.6
	6H	20.8	21.4	21.4	21.9	22.4	20.7	21.3	21.3	21.8	22.3
	8H	21.3	21.8	21.8	22.3	22.8	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 2335.418 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.)