



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S22-L24-835-FVLF-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 21040.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 23-APR-2020

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-56 LED 22" ARRAYS 2x2' RECESSED LUMINAIRE w/WHITE REFL

[MORE] CLEAR POLYCARB LENS w/FROSTED PRISMATIC PAT12 OVERLAY

[LUMCAT] V50G-S22-L24/835-FVLF-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2353
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	21.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
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	2874	2675	2632
55	2130	1958	1893
65	1559	1410	1418
75	1098	1003	998
85	500	388	284

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : V50G-S22-L24-835-FVLF-DIM-UNV\_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1102.453	1102.453	1102.453	1102.453	1102.453
<b>5</b>	1104.918	1101.315	1094.679	1090.128	1091.834
<b>10</b>	1087.852	1084.629	1078.750	1074.768	1076.665
<b>15</b>	1059.599	1057.134	1051.445	1047.084	1047.653
<b>20</b>	1019.210	1016.745	1012.383	1007.643	1006.884
<b>25</b>	967.633	964.409	958.531	954.928	954.360
<b>30</b>	900.697	895.388	883.631	882.304	882.304
<b>35</b>	816.505	809.110	795.647	793.751	791.286
<b>40</b>	716.576	699.320	684.719	676.566	672.584
<b>45</b>	592.374	578.911	551.416	541.556	542.504
<b>50</b>	469.879	459.450	426.646	419.061	420.388
<b>55</b>	356.107	348.143	327.285	317.235	316.476
<b>60</b>	266.227	259.970	244.041	236.267	240.059
<b>65</b>	192.085	186.966	173.692	174.640	174.640
<b>70</b>	135.010	131.597	121.167	121.926	121.736
<b>75</b>	82.864	81.347	75.659	73.573	75.279
<b>80</b>	41.527	37.355	33.942	33.752	34.132
<b>85</b>	12.705	11.377	9.860	9.671	7.206
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V50G-S22-L24-835-FVLF-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	400.79	N.A.	17.00
0-30	841.49	N.A.	35.80
0-40	1338.68	N.A.	56.90
0-60	2073.00	N.A.	88.10
0-80	2337.76	N.A.	99.40
0-90	2353.04	N.A.	100.00
10-90	2248.91	N.A.	95.60
20-40	937.88	N.A.	39.90
20-50	1370.62	N.A.	58.20
40-70	915.71	N.A.	38.90
60-80	264.77	N.A.	11.30
70-80	83.38	N.A.	3.50
80-90	15.28	N.A.	0.60
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	2353.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.13
10-20	296.66
20-30	440.70
30-40	497.18
40-50	432.73
50-60	301.59
60-70	181.39
70-80	83.38
80-90	15.28
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V50G-S22-L24-835-FVLF-DIM-UNV\_.IES**

**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	111	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	74	70	78	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	80	69	60	54	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : V50G-S22-L24-835-FVLF-DIM-UNV\_.IES**

**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	13.9	15.3	14.2	15.6	16.0	UGR Viewed Endwise			
	3H	15.1	16.4	15.4	16.7	17.1	13.2	14.7	13.5	15.0
	4H	15.4	16.7	15.8	17.0	17.4	14.4	15.7	14.8	16.1
	6H	15.6	16.8	16.1	17.2	17.5	14.8	16.0	15.2	16.4
	8H	15.7	16.8	16.1	17.2	17.6	15.0	16.1	15.4	16.5
	12H	15.7	16.7	16.1	17.1	17.5	15.0	16.1	15.4	16.5

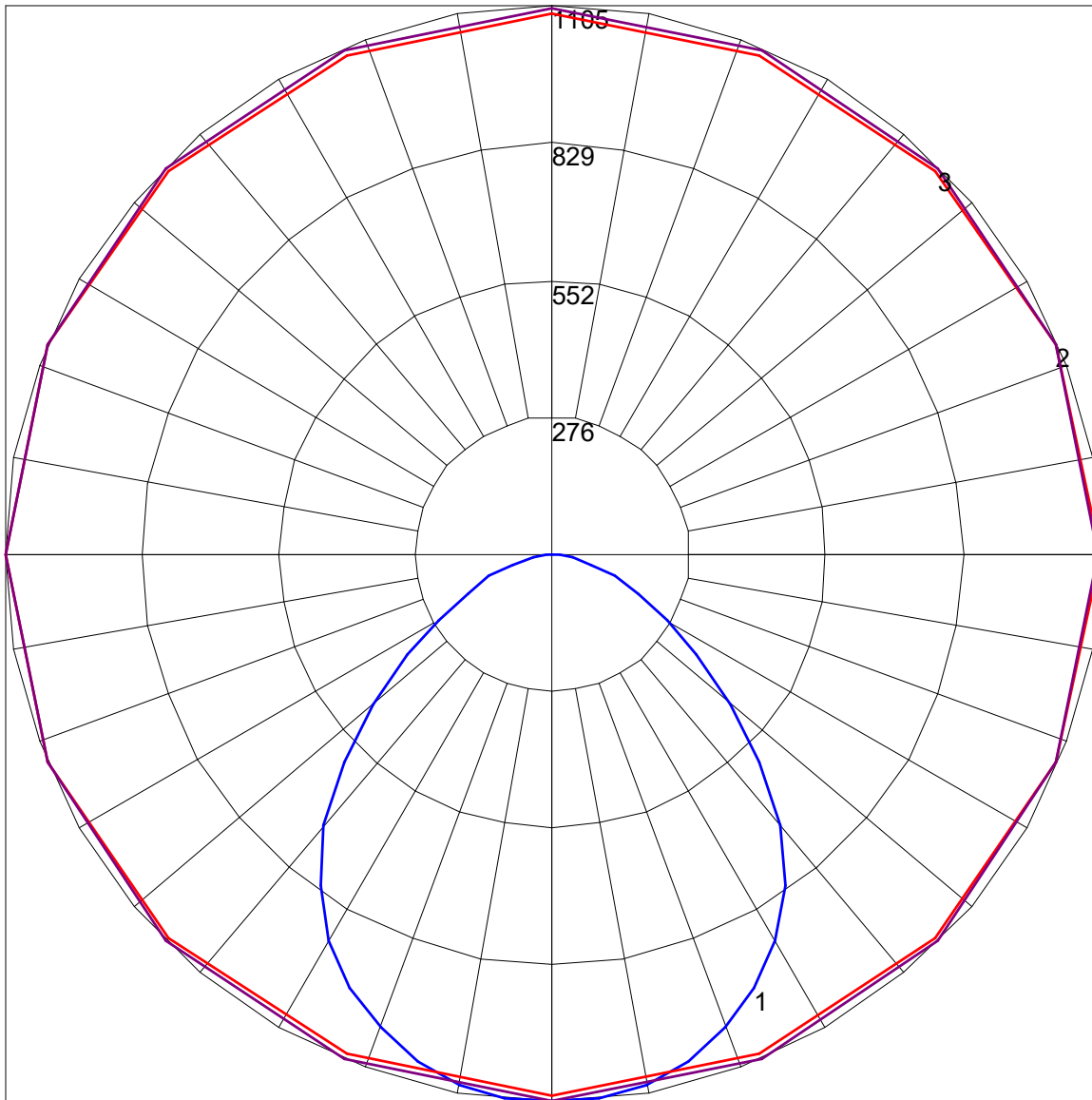
4H	2H	14.2	15.4	14.6	15.8	16.1	13.6	14.8	14.0	15.2
	3H	15.6	16.6	16.0	17.0	17.4	15.0	16.0	15.4	16.4
	4H	16.1	17.0	16.5	17.4	17.8	15.5	16.4	15.9	16.8
	6H	16.4	17.1	16.8	17.6	18.1	15.8	16.5	16.2	17.0
	8H	16.4	17.2	16.9	17.6	18.1	15.8	16.5	16.3	17.0
	12H	16.4	17.1	16.9	17.6	18.0	15.8	16.4	16.3	16.9

8H	4H	16.2	16.9	16.7	17.4	17.8	15.7	16.4	16.1	16.8
	6H	16.5	17.1	17.0	17.6	18.1	15.9	16.6	16.4	17.0
	8H	16.6	17.1	17.1	17.7	18.1	16.0	16.6	16.5	17.1
	12H	16.6	17.1	17.2	17.6	18.2	16.0	16.5	16.5	17.0

12H	4H	16.2	16.8	16.6	17.3	17.8	15.6	16.3	16.1	16.8
	6H	16.5	17.1	17.0	17.5	18.1	15.9	16.5	16.5	17.0
	8H	16.6	17.1	17.1	17.6	18.2	16.0	16.5	16.5	17.0

Maximum UGR = 18.2

POLAR GRAPH



Maximum Candela = 1104.918 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)  
# 3 - Horizontal Cone Through Vertical Angle (0)