



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S22-L24-835-FVL-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 21039.0

[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

[MORE] WHITE REFL w/ CLEAR POLYCARB LENS W/ PRISMATIC PAT12 OVERLAY

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2285
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	21.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.76 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	2646	2580	2556
55	2206	2151	2112
65	1805	1702	1727
75	1510	1464	1605
85	1201	1299	1456

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V50G-S22-L24-835-FVL-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>
0	981.288	981.288	981.288	981.288	981.288
5	985.411	979.639	972.877	970.074	970.733
10	968.259	963.312	955.725	953.911	954.241
15	941.047	936.100	929.173	925.874	926.534
20	901.466	897.178	890.251	886.128	886.953
25	850.835	845.392	838.630	834.672	835.662
30	786.680	781.897	774.641	772.661	771.672
35	712.795	709.991	702.240	699.106	698.446
40	630.333	627.695	619.449	612.687	615.161
45	542.265	533.194	528.741	520.825	523.794
50	453.207	448.424	440.673	434.735	433.251
55	366.787	364.479	357.552	348.811	351.120
60	289.439	284.821	276.905	276.575	273.771
65	221.161	214.399	208.462	211.760	211.595
70	162.119	159.645	155.192	160.634	162.119
75	113.302	111.652	109.838	117.920	120.393
80	71.411	70.752	71.246	78.173	80.647
85	30.346	29.686	32.820	39.252	36.778
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V50G-S22-L24-835-FVL-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	354.92	N.A.	15.50
0-30	741.33	N.A.	32.40
0-40	1180.51	N.A.	51.70
0-60	1910.63	N.A.	83.60
0-80	2246.45	N.A.	98.30
0-90	2285.03	N.A.	100.00
10-90	2192.47	N.A.	95.90
20-40	825.59	N.A.	36.10
20-50	1234.59	N.A.	54.00
40-70	944.13	N.A.	41.30
60-80	335.83	N.A.	14.70
70-80	121.81	N.A.	5.30
80-90	38.58	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	2285.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.56
10-20	262.36
20-30	386.41
30-40	439.18
40-50	409.00
50-60	321.11
60-70	214.01
70-80	121.81
80-90	38.58
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-FVL-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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V50G-S22-L24-835-FVL-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	14.3	15.9	14.7	16.2	16.5	14.1	15.6	14.4	15.9	16.2
	3H	15.8	17.2	16.2	17.5	17.9	15.6	17.0	16.0	17.3	17.7
	4H	16.3	17.7	16.7	18.0	18.4	16.2	17.6	16.6	17.9	18.3
	6H	16.8	18.0	17.2	18.4	18.8	16.8	18.0	17.2	18.4	18.8
	8H	17.0	18.1	17.4	18.5	18.9	17.0	18.2	17.5	18.6	19.0
	12H	17.1	18.2	17.5	18.5	19.0	17.2	18.3	17.6	18.7	19.1

UGR Viewed Endwise

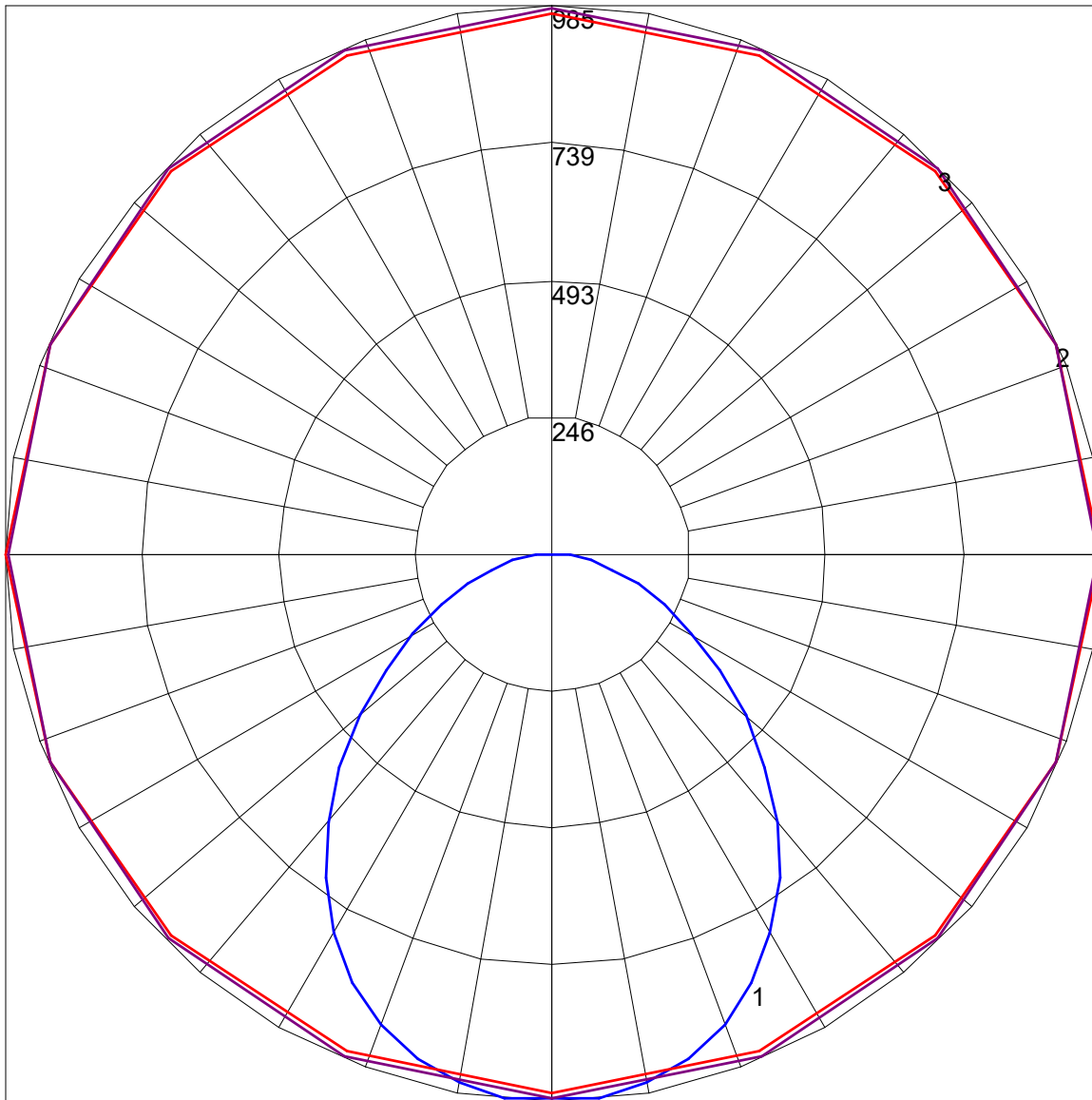
4H	2H	14.8	16.1	15.2	16.4	16.8	14.5	15.9	14.9	16.2	16.6
	3H	16.5	17.6	16.9	18.0	18.4	16.3	17.4	16.7	17.8	18.2
	4H	17.2	18.2	17.6	18.6	19.0	17.1	18.1	17.6	18.5	19.0
	6H	17.8	18.6	18.2	19.1	19.5	17.8	18.7	18.3	19.2	19.6
	8H	18.0	18.8	18.4	19.2	19.7	18.1	18.9	18.6	19.4	19.8
	12H	18.1	18.8	18.6	19.3	19.8	18.3	19.1	18.8	19.5	20.0

8H	4H	17.4	18.2	17.9	18.7	19.1	17.4	18.2	17.9	18.6	19.1
	6H	18.2	18.8	18.7	19.3	19.8	18.3	18.9	18.8	19.4	19.9
	8H	18.4	19.0	19.0	19.5	20.0	18.6	19.2	19.1	19.7	20.2
	12H	18.6	19.2	19.2	19.7	20.2	18.9	19.5	19.4	20.0	20.5

12H	4H	17.5	18.2	17.9	18.7	19.1	17.4	18.1	17.9	18.6	19.1
	6H	18.2	18.8	18.8	19.3	19.8	18.3	18.9	18.9	19.4	19.9
	8H	18.5	19.1	19.1	19.6	20.1	18.7	19.3	19.2	19.8	20.3

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 985.411 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)