



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V50G-S22-L24-835-FPC12187-CA040-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/.187" PRISMATIC PAT12 POLYCARB LENS & CA040 OVERLAY

[LUMCAT] V50G-S22-L24/835-FPC12187/CA040-DIM-UNV

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1958
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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)	1.77 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	2254	2198	2178
55	1880	1833	1800
65	1538	1450	1472
75	1287	1248	1367
85	1024	1107	1240

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	840.859	840.859	840.859	840.859	840.859
<b>5</b>	844.392	839.446	833.651	831.249	831.814
<b>10</b>	829.694	825.455	818.954	817.399	817.682
<b>15</b>	806.376	802.137	796.201	793.375	793.940
<b>20</b>	772.459	768.785	762.850	759.317	760.023
<b>25</b>	729.074	724.410	718.616	715.225	716.072
<b>30</b>	674.100	670.002	663.784	662.088	661.240
<b>35</b>	610.788	608.386	601.744	599.059	598.494
<b>40</b>	540.128	537.867	530.801	525.007	527.127
<b>45</b>	464.663	456.890	453.074	446.291	448.835
<b>50</b>	388.350	384.251	377.609	372.522	371.250
<b>55</b>	314.297	312.319	306.383	298.893	300.872
<b>60</b>	248.018	244.061	237.278	236.995	234.593
<b>65</b>	189.511	183.717	178.629	181.456	181.315
<b>70</b>	138.918	136.799	132.983	137.646	138.918
<b>75</b>	97.087	95.674	94.120	101.044	103.164
<b>80</b>	61.192	60.627	61.051	66.986	69.106
<b>85</b>	26.003	25.438	28.123	33.634	31.515
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : V50G-S22-L24-835-FPC12187-CA040-DIM-UNV\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	304.13	N.A.	15.50
0-30	635.24	N.A.	32.40
0-40	1011.57	N.A.	51.70
0-60	1637.2	N.A.	83.60
0-80	1924.97	N.A.	98.30
0-90	1958.02	N.A.	100.00
10-90	1878.71	N.A.	95.90
20-40	707.44	N.A.	36.10
20-50	1057.91	N.A.	54.00
40-70	809.02	N.A.	41.30
60-80	287.77	N.A.	14.70
70-80	104.38	N.A.	5.30
80-90	33.06	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	1958.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	79.32
10-20	224.81
20-30	331.11
30-40	376.33
40-50	350.47
50-60	275.16
60-70	183.39
70-80	104.38
80-90	33.06
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	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

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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

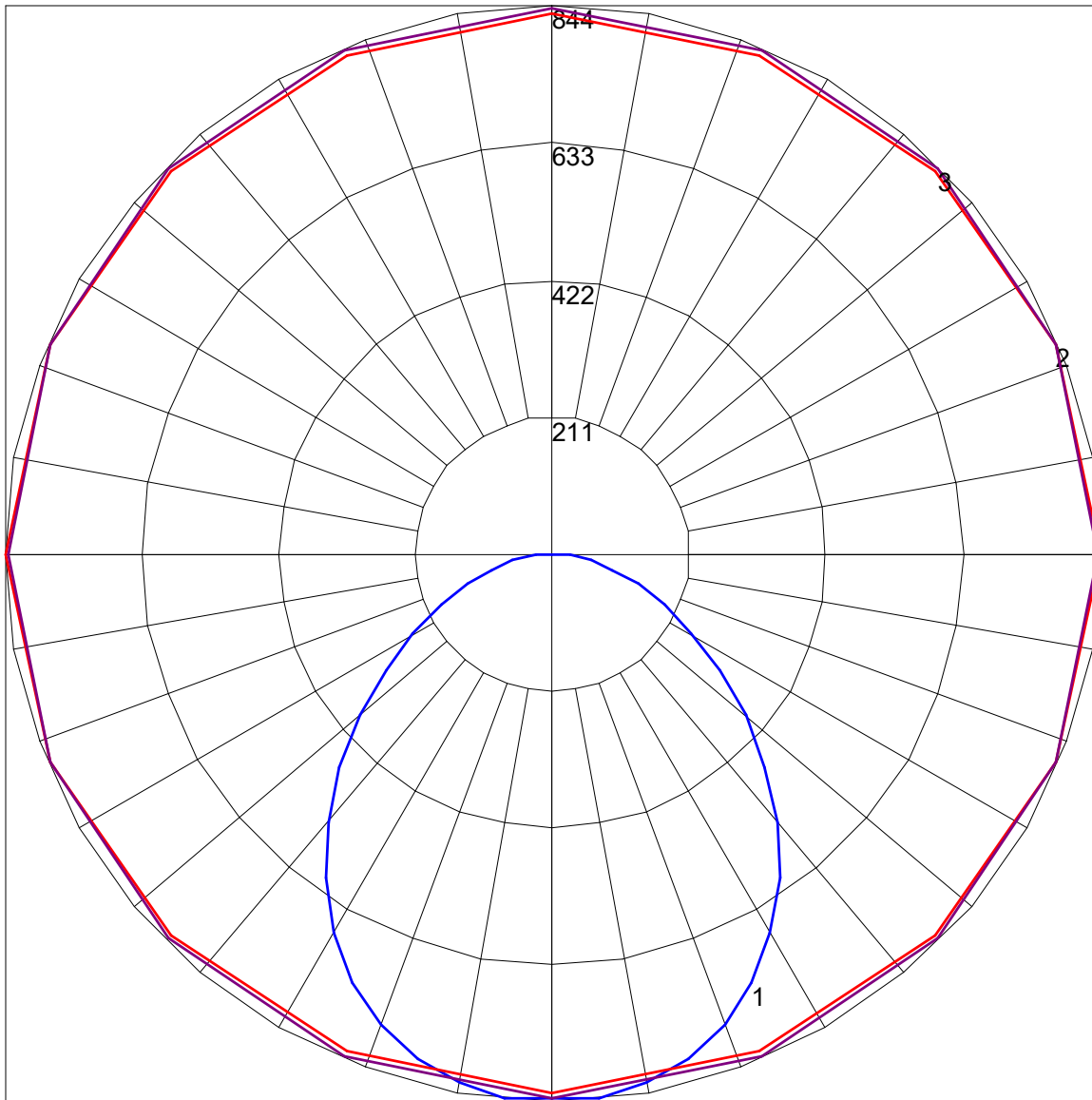
X=2H	Y=2H	13.7	15.3	14.1	15.6	15.9	13.4	15.0	13.8	15.3	15.6
	3H	15.2	16.6	15.5	16.9	17.3	15.0	16.4	15.4	16.7	17.1
	4H	15.7	17.0	16.1	17.4	17.8	15.6	16.9	16.0	17.3	17.7
	6H	16.2	17.4	16.6	17.8	18.2	16.2	17.4	16.6	17.8	18.2
	8H	16.3	17.5	16.8	17.9	18.3	16.4	17.6	16.8	18.0	18.4
	12H	16.4	17.5	16.9	17.9	18.4	16.6	17.7	17.0	18.0	18.5

### UGR Viewed Endwise

4H	2H	14.2	15.5	14.6	15.8	16.2	13.9	15.2	14.3	15.6	16.0
	3H	15.9	16.9	16.3	17.3	17.7	15.7	16.8	16.1	17.2	17.6
	4H	16.6	17.5	17.0	18.0	18.4	16.5	17.5	17.0	17.9	18.4
	6H	17.1	18.0	17.6	18.4	18.9	17.2	18.1	17.7	18.5	19.0
	8H	17.3	18.2	17.8	18.6	19.1	17.5	18.3	18.0	18.8	19.2
	12H	17.5	18.2	18.0	18.7	19.2	17.7	18.4	18.2	18.9	19.4
8H	4H	16.8	17.6	17.3	18.1	18.5	16.8	17.6	17.2	18.0	18.5
	6H	17.5	18.2	18.0	18.7	19.2	17.7	18.3	18.1	18.8	19.3
	8H	17.8	18.4	18.3	18.9	19.4	18.0	18.6	18.5	19.1	19.6
	12H	18.0	18.6	18.5	19.1	19.6	18.3	18.9	18.8	19.3	19.9
12H	4H	16.8	17.6	17.3	18.0	18.5	16.8	17.5	17.3	18.0	18.5
	6H	17.6	18.2	18.1	18.7	19.2	17.7	18.3	18.2	18.8	19.3
	8H	17.9	18.5	18.4	19.0	19.5	18.1	18.7	18.6	19.1	19.7

Maximum UGR = 19.9

POLAR GRAPH



Maximum Candela = 844.392 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)