



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-830-AD-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 19231.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 04-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4-72LED 22"ARRAYS 2x4'RECESSED WHITE LUMINAIRE w/A-SHAPED

[MORE] CENTER REFL, FROST ACRYLIC LINEAR RIBBED DIFFUSER

[LUMCAT] DIG-S24-L64-830-AD-DIM-UNV

[LAMPCAT] M700C835D72N2A

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6226
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	45.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.91 ft
Luminous Width (90-270)	1.88 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2824	3126	3314
55	2454	2872	3132
65	2211	2869	3435
75	1810	2458	2212
85	1516	1677	1839

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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>
<b>0</b>	2262.956	2262.956	2262.956	2262.956	2262.956
<b>5</b>	2236.152	2235.514	2235.514	2236.791	2236.791
<b>10</b>	2215.093	2216.369	2219.560	2225.304	2227.856
<b>15</b>	2127.663	2130.854	2142.979	2152.552	2155.743
<b>20</b>	2086.820	2088.735	2109.795	2127.663	2133.407
<b>25</b>	1876.862	1890.264	1919.619	1943.232	1954.081
<b>30</b>	1594.152	1709.023	1842.401	1800.920	1756.248
<b>35</b>	1596.705	1627.975	1684.134	1731.359	1747.951
<b>40</b>	1456.945	1495.874	1571.178	1627.975	1647.120
<b>45</b>	1359.943	1411.635	1505.446	1574.369	1596.067
<b>50</b>	1157.005	1211.249	1311.442	1380.365	1401.424
<b>55</b>	958.533	1017.883	1121.905	1197.848	1223.375
<b>60</b>	772.187	833.452	936.836	1029.370	1061.279
<b>65</b>	636.257	703.903	825.794	943.217	988.527
<b>70</b>	476.076	546.275	679.014	723.686	668.804
<b>75</b>	319.086	384.817	433.318	393.114	389.923
<b>80</b>	197.833	250.163	247.610	232.294	229.742
<b>85</b>	89.982	103.384	99.555	103.384	109.127
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	822.36	N.A.	13.20
0-30	1709.59	N.A.	27.50
0-40	2756.23	N.A.	44.30
0-60	4878.17	N.A.	78.40
0-80	6106.23	N.A.	98.10
0-90	6225.7	N.A.	100.00
10-90	6012.49	N.A.	96.60
20-40	1933.87	N.A.	31.10
20-50	3062.71	N.A.	49.20
40-70	2915.05	N.A.	46.80
60-80	1228.06	N.A.	19.70
70-80	434.96	N.A.	7.00
80-90	119.47	N.A.	1.90
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	6225.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	213.22
10-20	609.14
20-30	887.23
30-40	1046.64
40-50	1128.84
50-60	993.10
60-70	793.11
70-80	434.96
80-90	119.47
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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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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

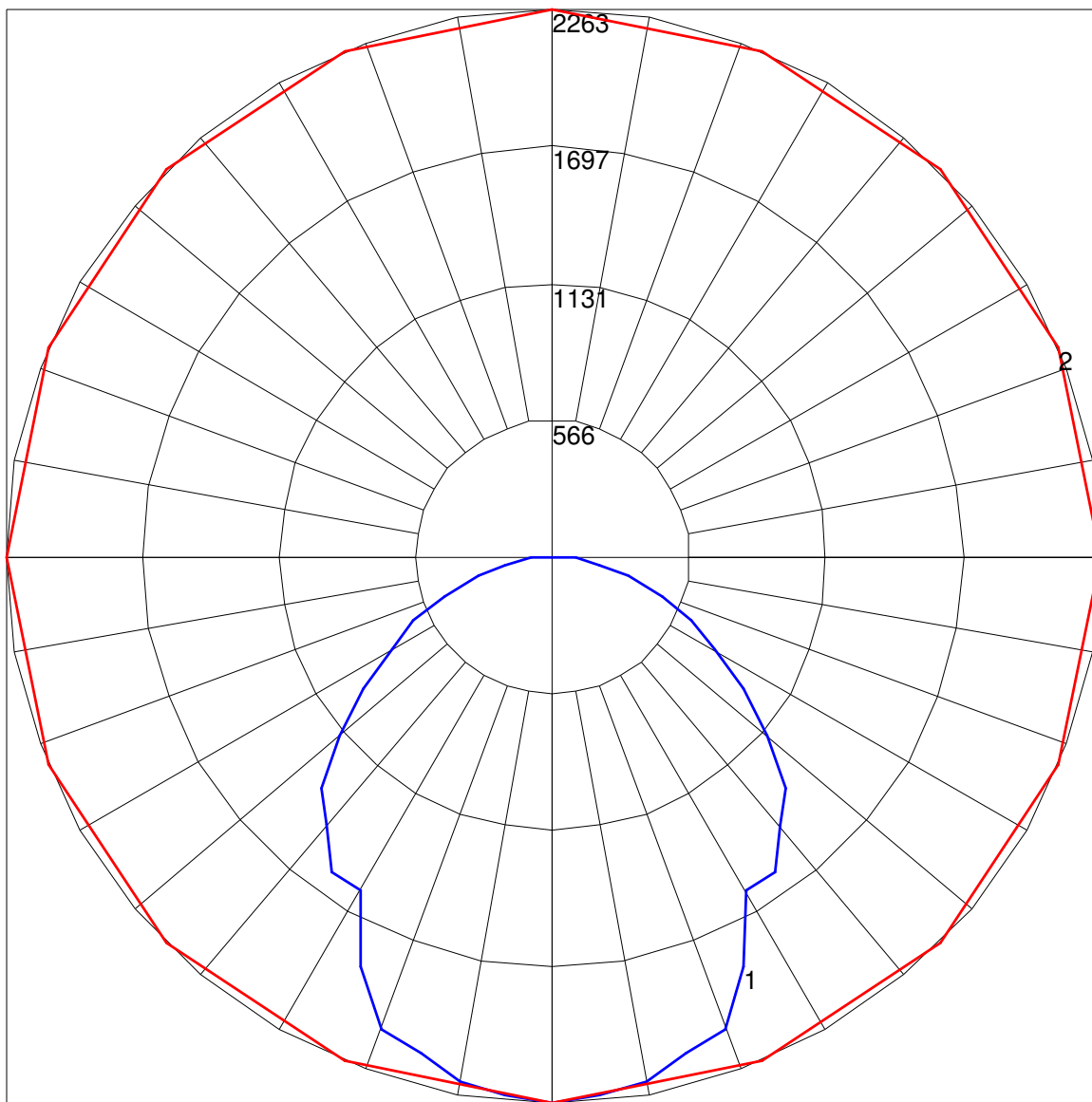
X=2H	Y=2H	15.0	16.6	15.3	16.9	17.2	16.4	18.0	16.7	18.3	18.7
	3H	16.7	18.2	17.1	18.6	18.9	18.5	20.0	18.9	20.4	20.7
	4H	17.3	18.8	17.7	19.1	19.5	19.1	20.5	19.5	20.8	21.2
	6H	17.8	19.1	18.2	19.5	19.9	19.4	20.7	19.8	21.1	21.5
	8H	18.0	19.2	18.4	19.6	20.0	19.5	20.8	19.9	21.2	21.6
	12H	18.1	19.3	18.5	19.6	20.1	19.6	20.8	20.0	21.2	21.6

UGR Viewed Endwise

4H	2H	15.9	17.3	16.3	17.7	18.1	17.0	18.4	17.4	18.8	19.1
	3H	17.9	19.1	18.3	19.5	19.9	19.4	20.6	19.8	21.0	21.4
	4H	18.6	19.7	19.1	20.1	20.6	20.0	21.0	20.4	21.5	21.9
	6H	19.3	20.2	19.7	20.6	21.1	20.4	21.4	20.9	21.8	22.3
	8H	19.4	20.3	19.9	20.8	21.2	20.6	21.5	21.1	21.9	22.4
	12H	19.6	20.4	20.1	20.8	21.3	20.7	21.5	21.2	22.0	22.5
8H	4H	19.1	20.0	19.6	20.4	20.9	20.2	21.1	20.7	21.6	22.0
	6H	19.8	20.6	20.3	21.0	21.5	20.8	21.5	21.3	22.0	22.5
	8H	20.1	20.8	20.6	21.3	21.8	21.0	21.7	21.5	22.2	22.7
	12H	20.3	20.9	20.8	21.4	22.0	21.2	21.8	21.7	22.3	22.8
12H	4H	19.1	19.9	19.6	20.4	20.9	20.3	21.1	20.7	21.5	22.0
	6H	19.9	20.6	20.4	21.0	21.6	20.9	21.5	21.4	22.0	22.5
	8H	20.2	20.8	20.7	21.3	21.9	21.1	21.7	21.6	22.2	22.8

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 2262.956 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.)