



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DIG-S24-L88-935-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  
 [ISSUEDATE] 05-03-2022  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 2x4' RECESSED LED LUMINAIRE w/A-SHAPED  
 [MORE] CENTER REFL, FROST ACRYLIC LINEAR RIBBED DIFFUSER  
 [LUMCAT] DIG-S24-L88-935-AD-DIM-UNV  
 [LAMPCAT] HLM 90 CRI 3500K CCT

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7351
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	65.9
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	3334	3691	3913
55	2897	3391	3698
65	2610	3388	4055
75	2137	2903	2612
85	1790	1980	2171

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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>	2671.858	2671.858	2671.858	2671.858	2671.858
<b>5</b>	2640.212	2639.458	2639.458	2640.965	2640.965
<b>10</b>	2615.347	2616.853	2620.621	2627.402	2630.416
<b>15</b>	2512.119	2515.886	2530.203	2541.505	2545.272
<b>20</b>	2463.896	2466.156	2491.021	2512.119	2518.900
<b>25</b>	2215.999	2231.823	2266.483	2294.362	2307.171
<b>30</b>	1882.206	2017.833	2175.311	2126.335	2073.591
<b>35</b>	1885.220	1922.140	1988.447	2044.205	2063.795
<b>40</b>	1720.206	1766.169	1855.080	1922.140	1944.745
<b>45</b>	1605.677	1666.709	1777.471	1858.848	1884.466
<b>50</b>	1366.068	1430.115	1548.412	1629.788	1654.653
<b>55</b>	1131.735	1201.809	1324.627	1414.291	1444.431
<b>60</b>	911.717	984.051	1106.116	1215.371	1253.046
<b>65</b>	751.225	831.094	975.010	1113.651	1167.148
<b>70</b>	562.100	644.983	801.708	854.452	789.652
<b>75</b>	376.743	454.351	511.616	464.147	460.379
<b>80</b>	233.580	295.366	292.352	274.269	271.255
<b>85</b>	106.241	122.065	117.544	122.065	128.846
<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	970.95	N.A.	13.20
0-30	2018.5	N.A.	27.50
0-40	3254.26	N.A.	44.30
0-60	5759.62	N.A.	78.40
0-80	7209.59	N.A.	98.10
0-90	7350.65	N.A.	100.00
10-90	7098.91	N.A.	96.60
20-40	2283.31	N.A.	31.10
20-50	3616.12	N.A.	49.20
40-70	3441.78	N.A.	46.80
60-80	1449.96	N.A.	19.70
70-80	513.55	N.A.	7.00
80-90	141.06	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	7350.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	251.74
10-20	719.21
20-30	1047.55
30-40	1235.76
40-50	1332.81
50-60	1172.55
60-70	936.42
70-80	513.55
80-90	141.06
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	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**

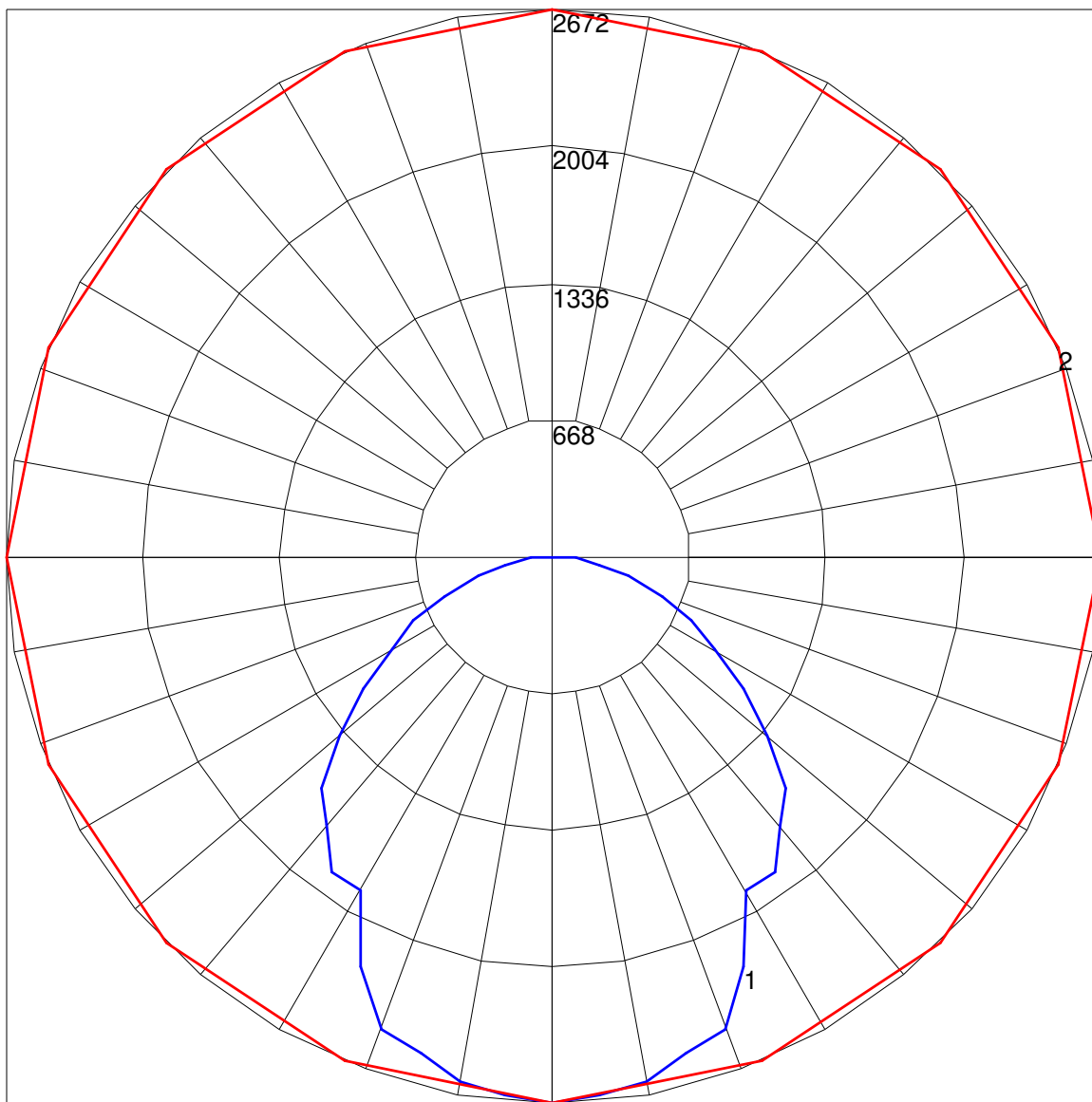
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.5	17.1	15.8	17.4	17.7	16.9	18.5	17.2	18.8	19.2
	3H	17.2	18.7	17.6	19.1	19.4	19.0	20.5	19.4	20.9	21.2
	4H	17.8	19.3	18.2	19.6	20.0	19.6	21.0	19.9	21.3	21.7
	6H	18.3	19.6	18.7	20.0	20.4	19.9	21.2	20.3	21.6	22.0
	8H	18.5	19.7	18.9	20.1	20.5	20.0	21.3	20.4	21.7	22.1
	12H	18.6	19.8	19.0	20.1	20.6	20.1	21.3	20.5	21.7	22.1
4H	2H	16.4	17.8	16.8	18.2	18.6	17.5	18.9	17.9	19.3	19.6
	3H	18.4	19.6	18.8	20.0	20.4	19.9	21.1	20.3	21.5	21.9
	4H	19.1	20.2	19.6	20.6	21.1	20.5	21.5	20.9	22.0	22.4
	6H	19.8	20.7	20.2	21.1	21.6	20.9	21.9	21.4	22.3	22.8
	8H	19.9	20.8	20.4	21.3	21.7	21.1	22.0	21.6	22.4	22.9
	12H	20.1	20.9	20.6	21.3	21.8	21.2	22.0	21.7	22.5	23.0
8H	4H	19.6	20.5	20.1	20.9	21.4	20.7	21.6	21.2	22.1	22.5
	6H	20.3	21.1	20.8	21.5	22.0	21.3	22.0	21.8	22.5	23.0
	8H	20.6	21.3	21.1	21.8	22.3	21.5	22.2	22.0	22.7	23.2
	12H	20.8	21.4	21.3	21.9	22.5	21.7	22.3	22.2	22.8	23.3
12H	4H	19.6	20.4	20.1	20.9	21.4	20.8	21.6	21.2	22.0	22.5
	6H	20.4	21.1	20.9	21.5	22.1	21.4	22.0	21.9	22.5	23.0
	8H	20.7	21.3	21.2	21.8	22.4	21.6	22.2	22.1	22.7	23.3

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 2671.858 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.)