



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-830-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-L50-830-AD-DIM-UNV

[LAMPCAT] M700C835D72N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4987
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	37.4
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	2262	2504	2655
55	1966	2301	2509
65	1771	2298	2751
75	1450	1969	1772
85	1214	1343	1473

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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>
0	1812.618	1812.618	1812.618	1812.618	1812.618
5	1791.149	1790.638	1790.638	1791.660	1791.660
10	1774.280	1775.302	1777.858	1782.459	1784.504
15	1704.249	1706.805	1716.518	1724.185	1726.741
20	1671.534	1673.068	1689.937	1704.249	1708.850
25	1503.359	1514.093	1537.607	1556.521	1565.210
30	1276.909	1368.920	1475.755	1442.529	1406.747
35	1278.954	1304.001	1348.984	1386.811	1400.102
40	1167.007	1198.189	1258.507	1304.001	1319.336
45	1089.309	1130.714	1205.856	1261.063	1278.443
50	926.756	970.206	1050.460	1105.666	1122.535
55	767.781	815.320	898.641	959.471	979.918
60	618.519	667.591	750.401	824.521	850.080
65	509.639	563.823	661.457	755.513	791.806
70	381.335	437.564	543.888	579.670	535.709
75	255.586	308.237	347.086	314.882	312.326
80	158.464	200.380	198.335	186.067	184.022
85	72.075	82.810	79.743	82.810	87.411
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	658.71	N.A.	13.20
0-30	1369.37	N.A.	27.50
0-40	2207.73	N.A.	44.30
0-60	3907.39	N.A.	78.40
0-80	4891.06	N.A.	98.10
0-90	4986.76	N.A.	100.00
10-90	4815.98	N.A.	96.60
20-40	1549.02	N.A.	31.10
20-50	2453.22	N.A.	49.20
40-70	2334.94	N.A.	46.80
60-80	983.67	N.A.	19.70
70-80	348.40	N.A.	7.00
80-90	95.70	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	4986.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	170.79
10-20	487.92
20-30	710.67
30-40	838.35
40-50	904.20
50-60	795.47
60-70	635.27
70-80	348.40
80-90	95.70
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

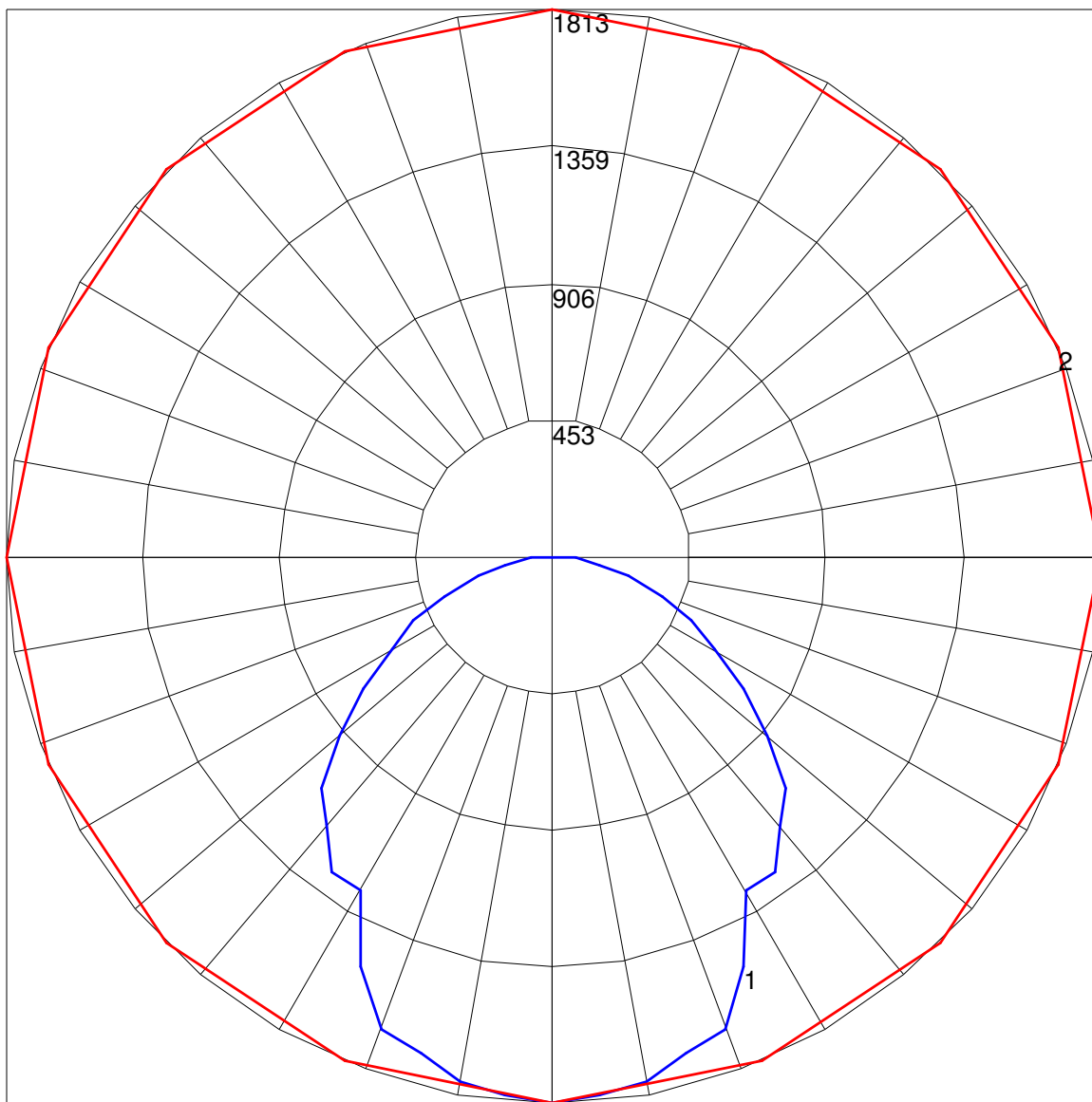
Reflectances

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	14.2	15.8	14.5	16.1	16.4	15.6	17.2	15.9	17.5	17.9
	3H	15.9	17.4	16.3	17.8	18.1	17.7	19.2	18.1	19.6	19.9
	4H	16.5	18.0	16.9	18.3	18.7	18.3	19.7	18.7	20.0	20.4
	6H	17.0	18.3	17.4	18.7	19.1	18.6	19.9	19.0	20.3	20.7
	8H	17.2	18.4	17.6	18.8	19.2	18.7	20.0	19.1	20.4	20.8
	12H	17.3	18.5	17.7	18.8	19.3	18.8	20.0	19.2	20.4	20.8
4H	2H	15.1	16.5	15.5	16.9	17.3	16.2	17.6	16.6	18.0	18.3
	3H	17.1	18.3	17.5	18.7	19.1	18.6	19.8	19.0	20.2	20.6
	4H	17.9	18.9	18.3	19.3	19.8	19.2	20.2	19.6	20.7	21.1
	6H	18.5	19.4	18.9	19.8	20.3	19.6	20.6	20.1	21.0	21.5
	8H	18.6	19.5	19.1	20.0	20.4	19.8	20.7	20.3	21.1	21.6
	12H	18.8	19.6	19.3	20.0	20.5	19.9	20.7	20.4	21.2	21.7
8H	4H	18.3	19.2	18.8	19.6	20.1	19.4	20.3	19.9	20.8	21.2
	6H	19.0	19.8	19.5	20.2	20.7	20.0	20.7	20.5	21.2	21.7
	8H	19.3	20.0	19.8	20.5	21.0	20.2	20.9	20.7	21.4	21.9
	12H	19.5	20.1	20.0	20.6	21.2	20.4	21.0	20.9	21.5	22.0
12H	4H	18.3	19.1	18.8	19.6	20.1	19.5	20.3	19.9	20.7	21.2
	6H	19.1	19.8	19.6	20.2	20.8	20.1	20.7	20.6	21.2	21.7
	8H	19.4	20.0	19.9	20.5	21.1	20.3	20.9	20.8	21.4	22.0

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 1812.618 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.)