



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-AD-LDE1-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] 03-30-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

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

[MORE] CENTER REFL, FROST ACRYLIC LINEAR RIBBED DIFFUSER

[LUMCAT] DIG-S24-L50-835-AD-LDE1-UNV

[LAMPCAT] M700C835D72N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	39.4
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	2269	2512	2663
55	1971	2307	2516
65	1776	2305	2759
75	1454	1975	1777
85	1218	1348	1477

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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	1818.070	1818.070	1818.070	1818.070	1818.070
5	1796.537	1796.024	1796.024	1797.049	1797.049
10	1779.617	1780.643	1783.206	1787.821	1789.871
15	1709.376	1711.939	1721.681	1729.372	1731.935
20	1676.562	1678.101	1695.020	1709.376	1713.990
25	1507.881	1518.648	1542.232	1561.203	1569.919
30	1280.750	1373.038	1480.194	1446.868	1410.979
35	1282.801	1307.924	1353.042	1390.983	1404.313
40	1170.517	1201.793	1262.293	1307.924	1323.305
45	1092.585	1134.115	1209.483	1264.856	1282.288
50	929.544	973.124	1053.619	1108.992	1125.912
55	770.091	817.773	901.345	962.357	982.865
60	620.379	669.600	752.659	827.002	852.637
65	511.172	565.519	663.447	757.786	794.188
70	382.482	438.880	545.524	581.413	537.320
75	256.355	309.164	348.130	315.829	313.266
80	158.940	200.982	198.932	186.627	184.576
85	72.292	83.059	79.983	83.059	87.673
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	660.69	N.A.	13.20
0-30	1373.49	N.A.	27.50
0-40	2214.37	N.A.	44.30
0-60	3919.15	N.A.	78.40
0-80	4905.78	N.A.	98.10
0-90	5001.76	N.A.	100.00
10-90	4830.46	N.A.	96.60
20-40	1553.68	N.A.	31.10
20-50	2460.59	N.A.	49.20
40-70	2341.96	N.A.	46.80
60-80	986.63	N.A.	19.70
70-80	349.45	N.A.	7.00
80-90	95.98	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	5001.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	171.30
10-20	489.39
20-30	712.80
30-40	840.88
40-50	906.92
50-60	797.86
60-70	637.19
70-80	349.45
80-90	95.98
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

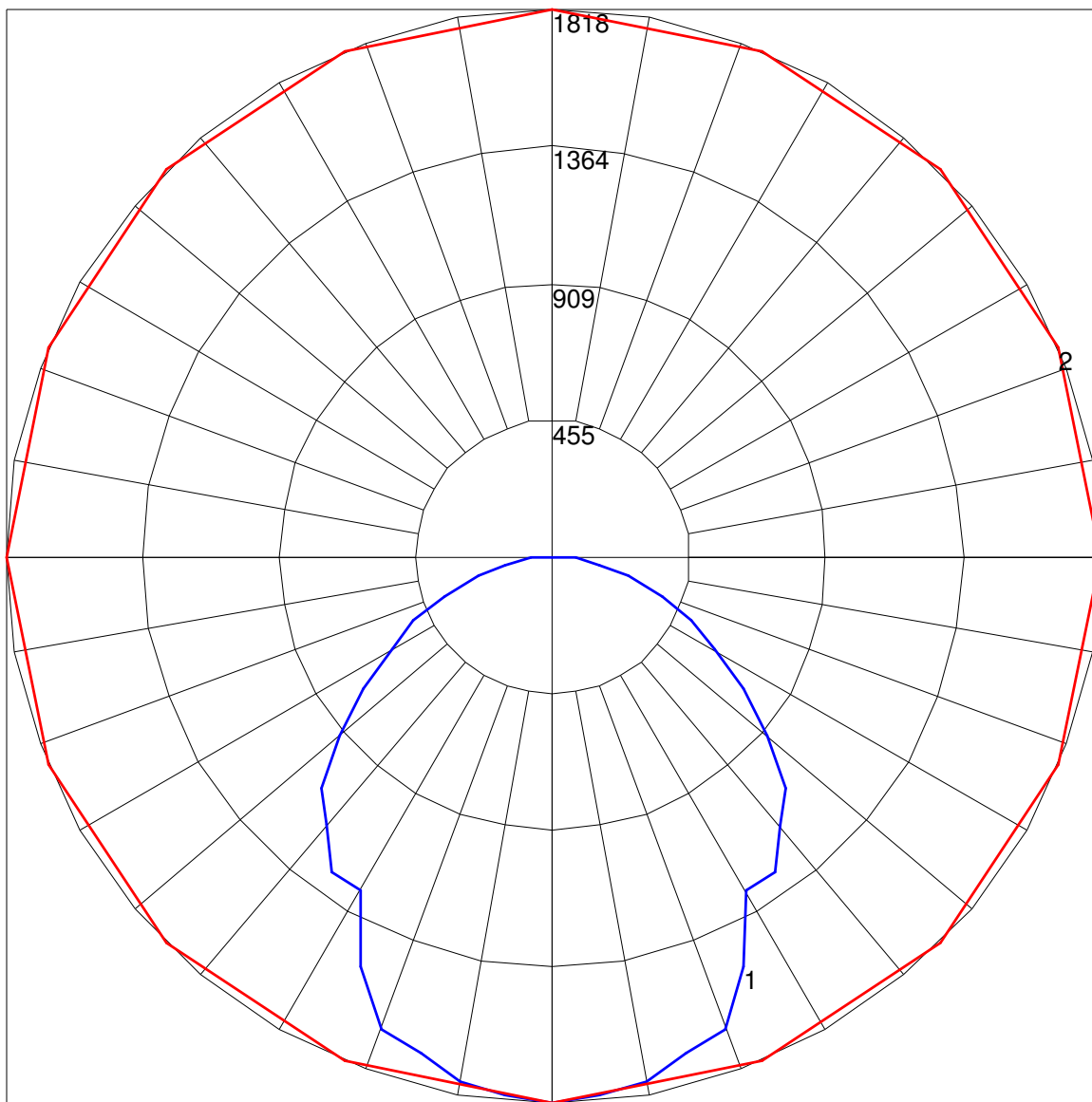
Reflectances

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 = 1818.07 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.)