



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L24-835-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] 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-S22-L24-835-AD-DIM-UNV

[LAMPCAT] M700C835D72N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2472
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	19.6
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)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2228	2466	2614
55	1936	2266	2470
65	1744	2263	2709
75	1428	1939	1745
85	1196	1323	1450

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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	898.494	898.494	898.494	898.494	898.494
5	887.852	887.599	887.599	888.106	888.106
10	879.491	879.997	881.264	883.545	884.558
15	844.777	846.044	850.858	854.659	855.926
20	828.561	829.321	837.683	844.777	847.058
25	745.198	750.519	762.175	771.550	775.857
30	632.949	678.558	731.515	715.045	697.309
35	633.963	646.379	668.676	687.427	694.015
40	578.472	593.929	623.828	646.379	653.980
45	539.958	560.482	597.729	625.095	633.710
50	459.382	480.920	520.701	548.066	556.428
55	380.581	404.145	445.446	475.599	485.734
60	306.593	330.918	371.966	408.706	421.375
65	252.622	279.481	327.877	374.499	392.489
70	189.023	216.895	269.599	287.336	265.545
75	126.691	152.790	172.047	156.084	154.817
80	78.549	99.326	98.312	92.231	91.218
85	35.727	41.048	39.528	41.048	43.328
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	326.51	N.A.	13.20
0-30	678.78	N.A.	27.50
0-40	1094.35	N.A.	44.30
0-60	1936.85	N.A.	78.40
0-80	2424.45	N.A.	98.10
0-90	2471.88	N.A.	100.00
10-90	2387.23	N.A.	96.60
20-40	767.83	N.A.	31.10
20-50	1216.03	N.A.	49.20
40-70	1157.4	N.A.	46.80
60-80	487.60	N.A.	19.70
70-80	172.70	N.A.	7.00
80-90	47.44	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	2471.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.66
10-20	241.86
20-30	352.27
30-40	415.56
40-50	448.20
50-60	394.31
60-70	314.90
70-80	172.70
80-90	47.44
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	14.1	15.7	14.4	16.0	16.3	15.5	17.1	15.8	17.4	17.7
	3H	15.8	17.3	16.2	17.6	18.0	17.6	19.1	18.0	19.4	19.8
	4H	16.4	17.8	16.8	18.2	18.6	18.1	19.5	18.5	19.9	20.3
	6H	16.9	18.2	17.3	18.6	18.9	18.5	19.8	18.9	20.2	20.5
	8H	17.0	18.3	17.5	18.7	19.1	18.6	19.8	19.0	20.2	20.6
	12H	17.2	18.3	17.6	18.7	19.2	18.7	19.9	19.1	20.3	20.7

UGR Viewed Endwise

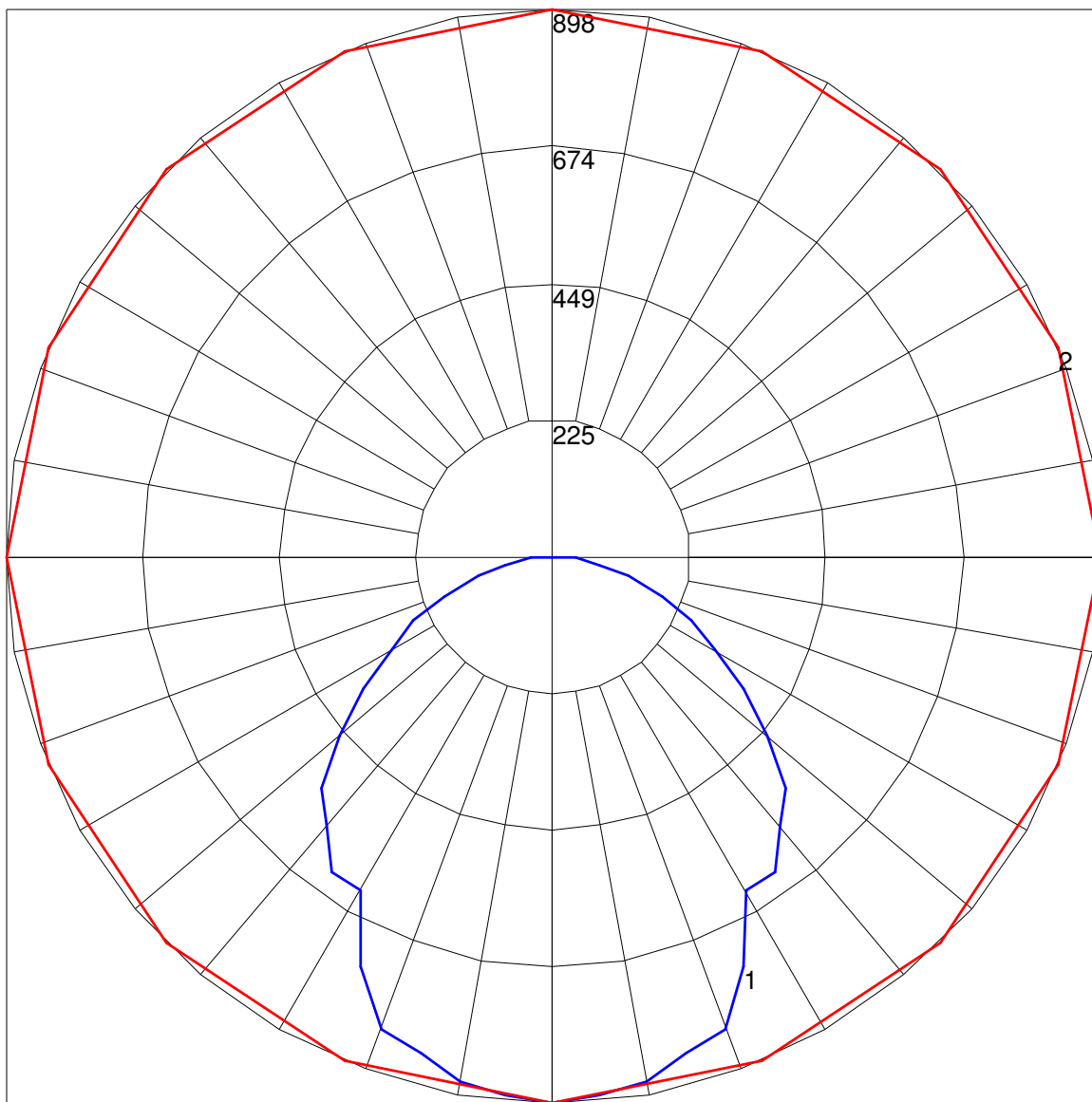
4H	2H	15.0	16.4	15.4	16.8	17.2	16.1	17.5	16.5	17.8	18.2
	3H	17.0	18.2	17.4	18.6	19.0	18.5	19.6	18.9	20.0	20.4
	4H	17.7	18.8	18.2	19.2	19.7	19.1	20.1	19.5	20.5	21.0
	6H	18.3	19.3	18.8	19.7	20.2	19.5	20.5	20.0	20.9	21.3
	8H	18.5	19.4	19.0	19.8	20.3	19.7	20.6	20.1	21.0	21.5
	12H	18.7	19.5	19.1	19.9	20.4	19.8	20.6	20.3	21.1	21.5

8H	4H	18.2	19.1	18.6	19.5	20.0	19.3	20.2	19.8	20.6	21.1
	6H	18.9	19.6	19.4	20.1	20.6	19.9	20.6	20.4	21.1	21.6
	8H	19.2	19.8	19.7	20.4	20.8	20.1	20.8	20.6	21.3	21.8
	12H	19.4	20.0	19.9	20.5	21.0	20.3	20.9	20.8	21.4	21.9

12H	4H	18.2	19.0	18.7	19.5	20.0	19.3	20.1	19.8	20.6	21.1
	6H	19.0	19.7	19.5	20.1	20.7	19.9	20.6	20.5	21.1	21.6
	8H	19.3	19.9	19.8	20.4	21.0	20.2	20.8	20.7	21.3	21.8

Maximum UGR = 21.9

POLAR GRAPH



Maximum Candela = 898.494 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.)