



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S22-L24-830-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

[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-L24-830-AD-DIM-UNV

[LAMPCAT] M700C835D72N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2436
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
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	2195	2430	2576
55	1907	2233	2434
65	1718	2230	2670
75	1407	1911	1720
85	1178	1304	1429

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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	885.410	885.410	885.410	885.410	885.410
5	874.923	874.673	874.673	875.172	875.172
10	866.683	867.182	868.431	870.678	871.677
15	832.475	833.723	838.467	842.213	843.461
20	816.494	817.244	825.483	832.475	834.722
25	734.346	739.589	751.075	760.314	764.558
30	623.732	668.677	720.862	704.632	687.154
35	624.731	636.966	658.939	677.416	683.908
40	570.048	585.279	614.743	636.966	644.456
45	532.095	552.320	589.025	615.991	624.481
50	452.693	473.916	513.118	540.085	548.325
55	375.038	398.260	438.959	468.673	478.661
60	302.128	326.098	366.549	402.754	415.239
65	248.943	275.411	323.102	369.046	386.774
70	186.271	213.737	265.673	283.151	261.678
75	124.846	150.565	169.541	153.811	152.562
80	77.405	97.879	96.881	90.888	89.889
85	35.207	40.450	38.952	40.450	42.697
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	321.76	N.A.	13.20
0-30	668.90	N.A.	27.50
0-40	1078.41	N.A.	44.30
0-60	1908.64	N.A.	78.40
0-80	2389.14	N.A.	98.10
0-90	2435.88	N.A.	100.00
10-90	2352.46	N.A.	96.60
20-40	756.65	N.A.	31.10
20-50	1198.32	N.A.	49.20
40-70	1140.55	N.A.	46.80
60-80	480.49	N.A.	19.70
70-80	170.18	N.A.	7.00
80-90	46.74	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	2435.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.42
10-20	238.33
20-30	347.14
30-40	409.51
40-50	441.67
50-60	388.56
60-70	310.31
70-80	170.18
80-90	46.74
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

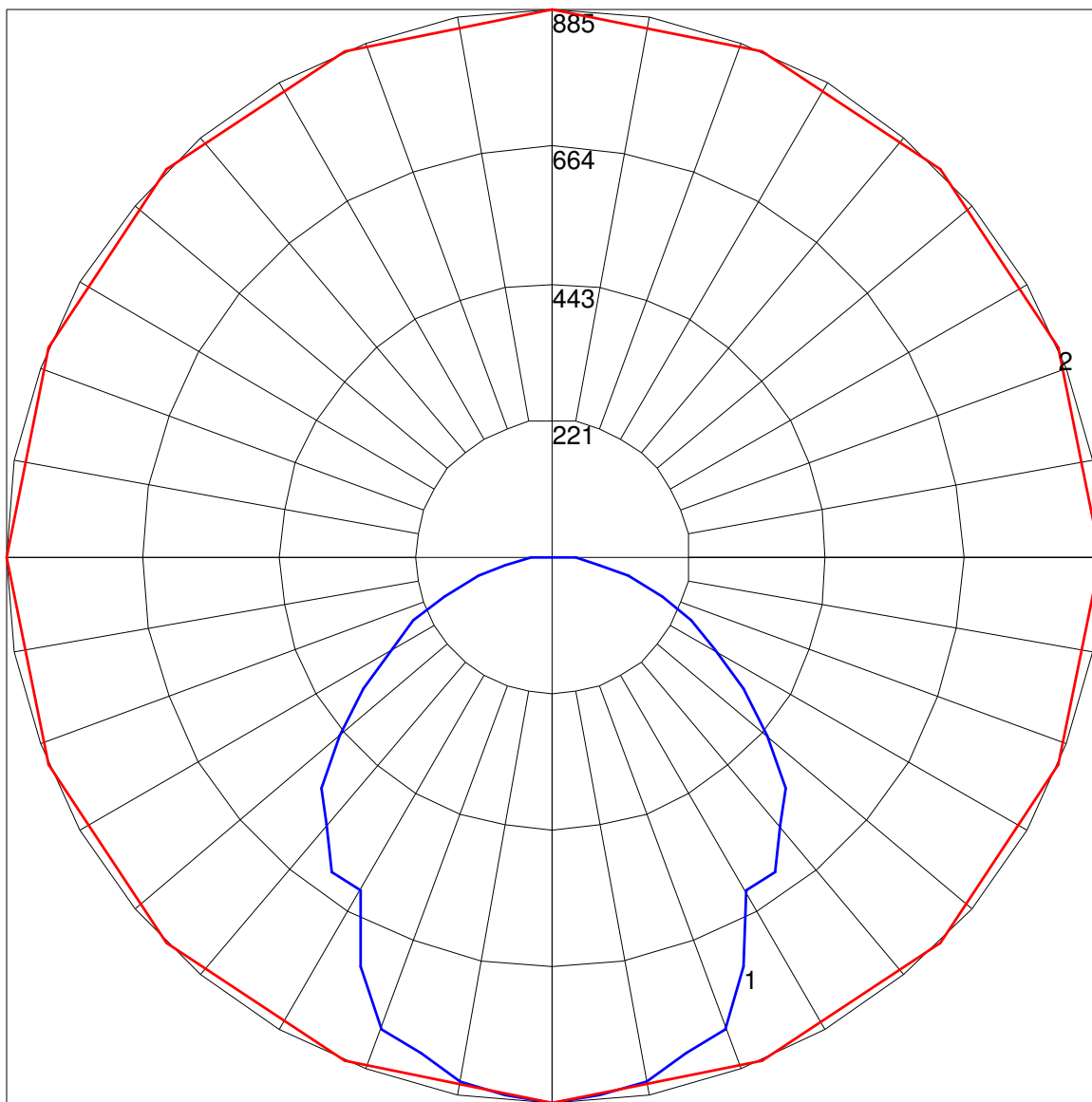
Reflectances

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	14.1	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
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 = 885.41 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.)