



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-840-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-L50-840-AD-DIM-UNV

[LAMPCAT] M700C835D72N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
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	2323	2572	2727
55	2019	2363	2576
65	1819	2360	2826
75	1489	2022	1820
85	1247	1380	1513

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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	1861.686	1861.686	1861.686	1861.686	1861.686
5	1839.636	1839.111	1839.111	1840.161	1840.161
10	1822.311	1823.361	1825.986	1830.711	1832.811
15	1750.384	1753.009	1762.984	1770.859	1773.485
20	1716.783	1718.358	1735.684	1750.384	1755.109
25	1544.055	1555.080	1579.231	1598.656	1607.581
30	1311.476	1405.977	1515.705	1481.579	1444.828
35	1313.576	1339.301	1385.502	1424.353	1438.003
40	1198.598	1230.624	1292.575	1339.301	1355.051
45	1118.797	1161.323	1238.499	1295.200	1313.051
50	951.844	996.469	1078.896	1135.597	1152.922
55	788.565	837.391	922.968	985.444	1006.445
60	635.262	685.663	770.715	846.841	873.092
65	523.435	579.086	679.363	775.965	813.241
70	391.658	449.409	558.611	595.362	550.211
75	262.505	316.581	356.482	323.406	320.781
80	162.753	205.804	203.704	191.104	189.004
85	74.026	85.052	81.902	85.052	89.777
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	676.54	N.A.	13.20
0-30	1406.44	N.A.	27.50
0-40	2267.49	N.A.	44.30
0-60	4013.17	N.A.	78.40
0-80	5023.47	N.A.	98.10
0-90	5121.75	N.A.	100.00
10-90	4946.35	N.A.	96.60
20-40	1590.95	N.A.	31.10
20-50	2519.62	N.A.	49.20
40-70	2398.15	N.A.	46.80
60-80	1010.3	N.A.	19.70
70-80	357.83	N.A.	7.00
80-90	98.29	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	5121.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.41
10-20	501.13
20-30	729.90
30-40	861.05
40-50	928.67
50-60	817.00
60-70	652.47
70-80	357.83
80-90	98.29
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

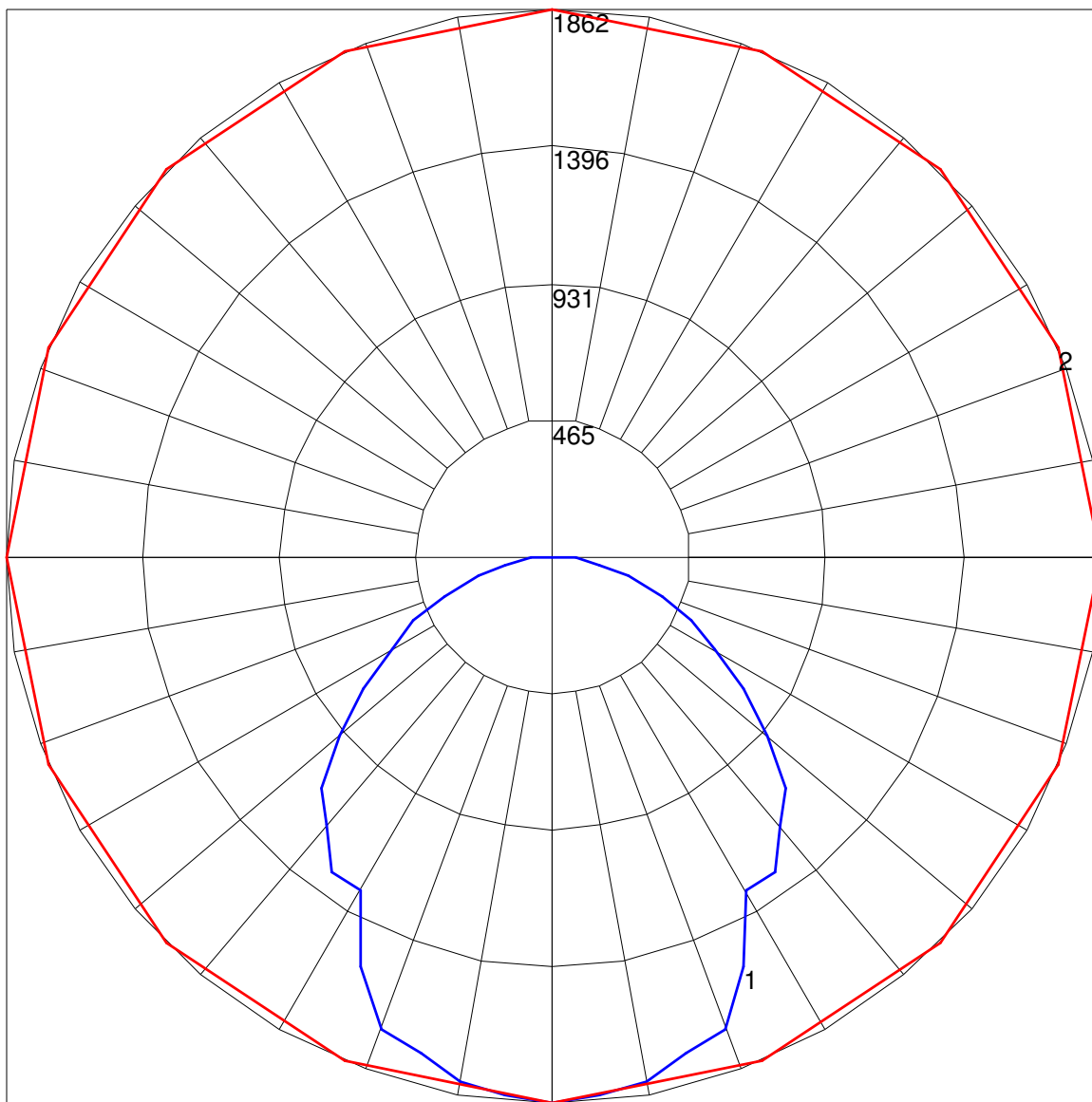
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UGR TABLE - CORRECTED

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	14.3	15.9	14.6	16.2	16.5	15.7	17.3	16.0	17.6	18.0
	3H	16.0	17.5	16.4	17.9	18.2	17.8	19.3	18.2	19.7	20.0
	4H	16.6	18.1	17.0	18.4	18.8	18.4	19.8	18.8	20.1	20.5
	6H	17.1	18.4	17.5	18.8	19.2	18.7	20.0	19.1	20.4	20.8
	8H	17.3	18.5	17.7	18.9	19.3	18.8	20.1	19.2	20.5	20.9
	12H	17.4	18.6	17.8	18.9	19.4	18.9	20.1	19.3	20.5	20.9
4H	2H	15.2	16.6	15.6	17.0	17.4	16.3	17.7	16.7	18.1	18.4
	3H	17.2	18.4	17.6	18.8	19.2	18.7	19.9	19.1	20.3	20.7
	4H	18.0	19.0	18.4	19.4	19.9	19.3	20.3	19.7	20.8	21.2
	6H	18.6	19.5	19.0	19.9	20.4	19.7	20.7	20.2	21.1	21.6
	8H	18.7	19.6	19.2	20.1	20.5	19.9	20.8	20.4	21.2	21.7
	12H	18.9	19.7	19.4	20.1	20.6	20.0	20.8	20.5	21.3	21.8
8H	4H	18.4	19.3	18.9	19.7	20.2	19.5	20.4	20.0	20.9	21.3
	6H	19.1	19.9	19.6	20.3	20.8	20.1	20.8	20.6	21.3	21.8
	8H	19.4	20.1	19.9	20.6	21.1	20.3	21.0	20.8	21.5	22.0
	12H	19.6	20.2	20.1	20.7	21.3	20.5	21.1	21.0	21.6	22.1
12H	4H	18.4	19.2	18.9	19.7	20.2	19.6	20.4	20.0	20.8	21.3
	6H	19.2	19.9	19.7	20.3	20.9	20.2	20.8	20.7	21.3	21.8
	8H	19.5	20.1	20.0	20.6	21.2	20.4	21.0	20.9	21.5	22.1

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1861.686 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.)