



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L64-840-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-L64-840-AD-DIM-UNV

[LAMPCAT] M700C835D72N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6506
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	45.7
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	2951	3267	3463
55	2564	3001	3273
65	2310	2998	3589
75	1892	2569	2312
85	1584	1753	1921

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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	2364.727	2364.727	2364.727	2364.727	2364.727
5	2336.719	2336.052	2336.052	2337.385	2337.385
10	2314.712	2316.046	2319.380	2325.382	2328.049
15	2223.350	2226.685	2239.355	2249.358	2252.693
20	2180.671	2182.671	2204.678	2223.350	2229.352
25	1961.270	1975.274	2005.950	2030.624	2041.961
30	1665.846	1785.882	1925.259	1881.912	1835.231
35	1668.513	1701.190	1759.874	1809.223	1826.562
40	1522.468	1563.147	1641.838	1701.190	1721.196
45	1421.104	1475.120	1573.150	1645.173	1667.846
50	1209.038	1265.723	1370.421	1442.444	1464.450
55	1001.641	1063.660	1172.360	1251.718	1278.393
60	806.915	870.934	978.968	1075.664	1109.008
65	664.871	735.560	862.932	985.636	1032.984
70	497.486	570.842	709.552	756.233	698.882
75	333.436	402.124	452.806	410.793	407.459
80	206.730	261.414	258.746	242.741	240.074
85	94.029	108.033	104.032	108.033	114.035
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	859.34	N.A.	13.20
0-30	1786.47	N.A.	27.50
0-40	2880.18	N.A.	44.30
0-60	5097.55	N.A.	78.40
0-80	6380.84	N.A.	98.10
0-90	6505.69	N.A.	100.00
10-90	6282.88	N.A.	96.60
20-40	2020.84	N.A.	31.10
20-50	3200.45	N.A.	49.20
40-70	3046.15	N.A.	46.80
60-80	1283.29	N.A.	19.70
70-80	454.52	N.A.	7.00
80-90	124.84	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	6505.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	222.81
10-20	636.54
20-30	927.13
30-40	1093.71
40-50	1179.61
50-60	1037.77
60-70	828.77
70-80	454.52
80-90	124.84
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

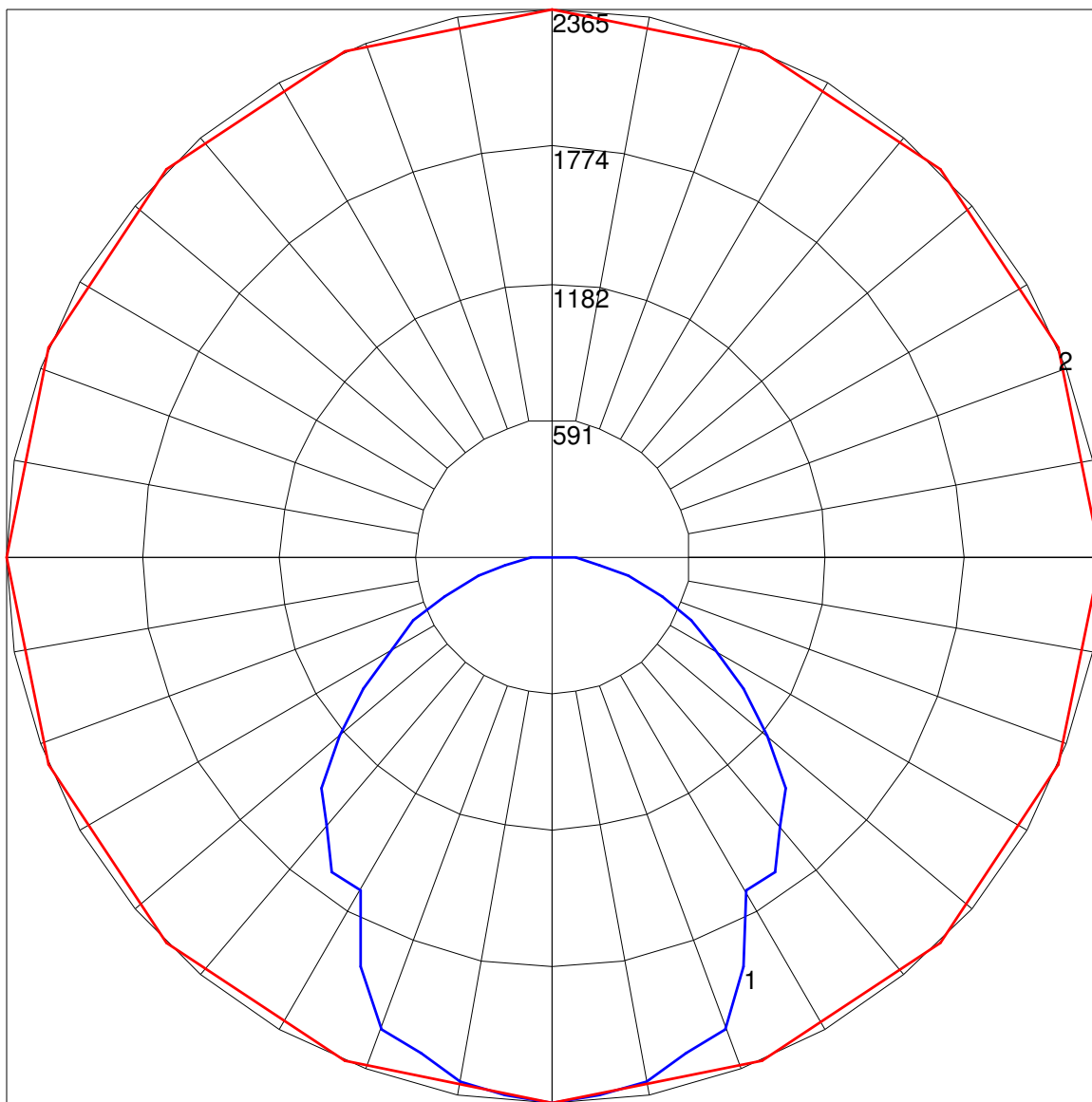
Reflectances

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	15.1	16.7	15.4	17.0	17.3	16.5	18.1	16.8	18.4	18.8
	3H	16.8	18.3	17.2	18.7	19.0	18.6	20.1	19.0	20.5	20.8
	4H	17.4	18.9	17.8	19.2	19.6	19.2	20.6	19.6	20.9	21.3
	6H	17.9	19.2	18.3	19.6	20.0	19.5	20.8	19.9	21.2	21.6
	8H	18.1	19.3	18.5	19.7	20.1	19.6	20.9	20.0	21.3	21.7
	12H	18.2	19.4	18.6	19.7	20.2	19.7	20.9	20.1	21.3	21.7
4H	2H	16.0	17.4	16.4	17.8	18.2	17.1	18.5	17.5	18.9	19.2
	3H	18.0	19.2	18.4	19.6	20.0	19.5	20.7	19.9	21.1	21.5
	4H	18.7	19.8	19.2	20.2	20.7	20.1	21.1	20.5	21.6	22.0
	6H	19.4	20.3	19.8	20.7	21.2	20.5	21.5	21.0	21.9	22.4
	8H	19.5	20.4	20.0	20.9	21.3	20.7	21.6	21.2	22.0	22.5
	12H	19.7	20.5	20.2	20.9	21.4	20.8	21.6	21.3	22.1	22.6
8H	4H	19.2	20.1	19.7	20.5	21.0	20.3	21.2	20.8	21.7	22.1
	6H	19.9	20.7	20.4	21.1	21.6	20.9	21.6	21.4	22.1	22.6
	8H	20.2	20.9	20.7	21.4	21.9	21.1	21.8	21.6	22.3	22.8
	12H	20.4	21.0	20.9	21.5	22.1	21.3	21.9	21.8	22.4	22.9
12H	4H	19.2	20.0	19.7	20.5	21.0	20.4	21.2	20.8	21.6	22.1
	6H	20.0	20.7	20.5	21.1	21.7	21.0	21.6	21.5	22.1	22.6
	8H	20.3	20.9	20.8	21.4	22.0	21.2	21.8	21.7	22.3	22.9

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 2364.727 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.)