



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L88-840-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-L88-840-AD-DIM-UNV

[LAMPCAT] M700C835D72N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9121
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	66.3
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	4137	4580	4855
55	3595	4208	4588
65	3239	4203	5032
75	2652	3601	3241
85	2221	2457	2693

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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	3315.197	3315.197	3315.197	3315.197	3315.197
5	3275.931	3274.996	3274.996	3276.866	3276.866
10	3245.079	3246.949	3251.623	3260.037	3263.777
15	3116.996	3121.670	3139.434	3153.457	3158.132
20	3057.162	3059.966	3090.818	3116.996	3125.410
25	2749.576	2769.209	2812.215	2846.806	2862.700
30	2335.410	2503.694	2699.090	2638.321	2572.877
35	2339.149	2384.960	2467.232	2536.416	2560.723
40	2134.404	2191.433	2301.753	2384.960	2413.007
45	1992.297	2068.025	2205.457	2306.427	2338.214
50	1694.995	1774.463	1921.244	2022.214	2053.066
55	1404.238	1491.184	1643.575	1754.829	1792.226
60	1131.243	1220.995	1372.451	1508.013	1554.758
65	932.107	1031.208	1209.776	1381.800	1448.178
70	697.444	800.284	994.746	1060.190	979.788
75	467.456	563.752	634.805	575.906	571.231
80	289.823	366.485	362.746	340.308	336.568
85	131.823	151.456	145.846	151.456	159.870
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1204.74	N.A.	13.20
0-30	2504.52	N.A.	27.50
0-40	4037.83	N.A.	44.30
0-60	7146.45	N.A.	78.40
0-80	8945.54	N.A.	98.10
0-90	9120.56	N.A.	100.00
10-90	8808.2	N.A.	96.60
20-40	2833.09	N.A.	31.10
20-50	4486.82	N.A.	49.20
40-70	4270.5	N.A.	46.80
60-80	1799.09	N.A.	19.70
70-80	637.20	N.A.	7.00
80-90	175.02	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	9120.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	312.36
10-20	892.39
20-30	1299.78
30-40	1533.31
40-50	1653.73
50-60	1454.88
60-70	1161.89
70-80	637.20
80-90	175.02
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

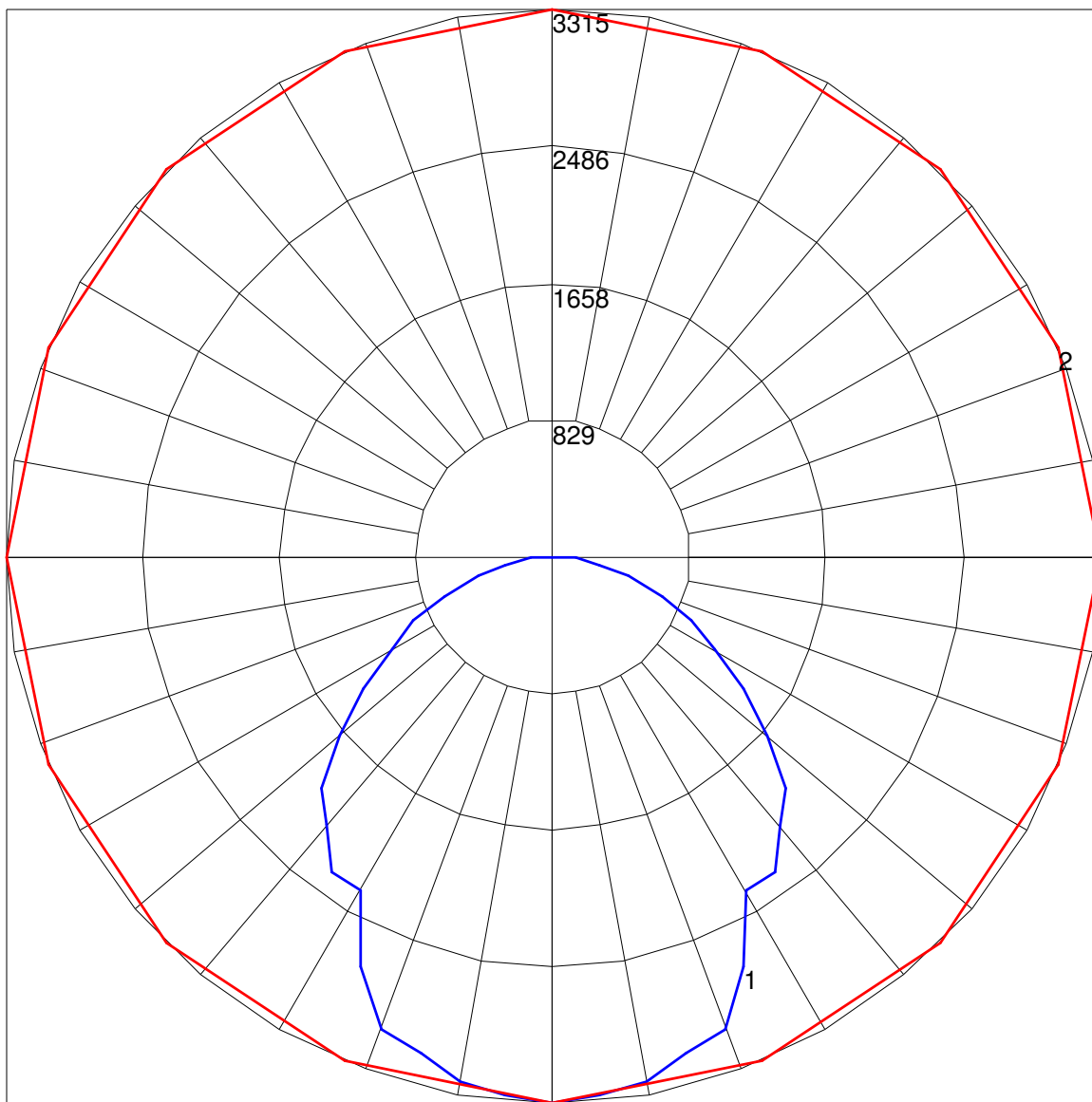
Reflectances

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	16.3	17.9	16.6	18.2	18.6	17.7	19.3	18.0	19.6	20.0
	3H	18.0	19.5	18.4	19.9	20.2	19.8	21.3	20.2	21.7	22.0
	4H	18.6	20.1	19.0	20.4	20.8	20.4	21.8	20.8	22.1	22.5
	6H	19.1	20.4	19.5	20.8	21.2	20.7	22.0	21.1	22.4	22.8
	8H	19.3	20.5	19.7	20.9	21.3	20.8	22.1	21.2	22.5	22.9
	12H	19.4	20.6	19.8	20.9	21.4	20.9	22.1	21.3	22.5	22.9
4H	2H	17.2	18.6	17.6	19.0	19.4	18.3	19.7	18.7	20.1	20.4
	3H	19.2	20.4	19.6	20.8	21.2	20.7	21.9	21.1	22.3	22.7
	4H	20.0	21.0	20.4	21.4	21.9	21.3	22.3	21.7	22.8	23.2
	6H	20.6	21.5	21.0	21.9	22.4	21.7	22.7	22.2	23.1	23.6
	8H	20.7	21.6	21.2	22.1	22.5	21.9	22.8	22.4	23.2	23.7
	12H	20.9	21.7	21.4	22.1	22.6	22.0	22.8	22.5	23.3	23.8
8H	4H	20.4	21.3	20.9	21.7	22.2	21.5	22.4	22.0	22.9	23.3
	6H	21.1	21.9	21.6	22.3	22.8	22.1	22.8	22.6	23.3	23.8
	8H	21.4	22.1	21.9	22.6	23.1	22.3	23.0	22.8	23.5	24.0
	12H	21.6	22.2	22.1	22.7	23.3	22.5	23.1	23.0	23.6	24.1
12H	4H	20.4	21.2	20.9	21.7	22.2	21.6	22.4	22.0	22.8	23.3
	6H	21.2	21.9	21.7	22.3	22.9	22.2	22.8	22.7	23.3	23.8
	8H	21.5	22.1	22.0	22.6	23.2	22.4	23.0	22.9	23.5	24.1

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 3315.197 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.)