



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L88-830-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

[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-L88-830-AD-DIM-UNV

[LAMPCAT] M700C835D72N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8729
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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	3959	4383	4647
55	3440	4027	4391
65	3099	4023	4815
75	2538	3447	3101
85	2125	2352	2578

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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	3172.718	3172.718	3172.718	3172.718	3172.718
5	3135.139	3134.245	3134.245	3136.034	3136.034
10	3105.613	3107.403	3111.876	3119.929	3123.508
15	2983.035	2987.509	3004.508	3017.929	3022.403
20	2925.772	2928.456	2957.982	2983.035	2991.087
25	2631.405	2650.195	2691.352	2724.457	2739.668
30	2235.039	2396.091	2583.090	2524.932	2462.301
35	2238.618	2282.460	2361.196	2427.407	2450.670
40	2042.672	2097.251	2202.829	2282.460	2309.302
45	1906.673	1979.146	2110.672	2207.303	2237.724
50	1622.148	1698.200	1838.673	1935.304	1964.830
55	1343.887	1427.097	1572.938	1679.411	1715.200
60	1082.625	1168.519	1313.466	1443.202	1487.939
65	892.047	986.889	1157.783	1322.413	1385.939
70	667.470	765.890	951.994	1014.626	937.679
75	447.366	539.523	607.523	551.155	546.681
80	277.367	350.735	347.156	325.682	322.103
85	126.157	144.947	139.578	144.947	152.999
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1152.97	N.A.	13.20
0-30	2396.88	N.A.	27.50
0-40	3864.3	N.A.	44.30
0-60	6839.31	N.A.	78.40
0-80	8561.08	N.A.	98.10
0-90	8728.58	N.A.	100.00
10-90	8429.65	N.A.	96.60
20-40	2711.33	N.A.	31.10
20-50	4293.99	N.A.	49.20
40-70	4086.97	N.A.	46.80
60-80	1721.77	N.A.	19.70
70-80	609.82	N.A.	7.00
80-90	167.50	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	8728.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	298.93
10-20	854.03
20-30	1243.92
30-40	1467.41
40-50	1582.66
50-60	1392.35
60-70	1111.95
70-80	609.82
80-90	167.50
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

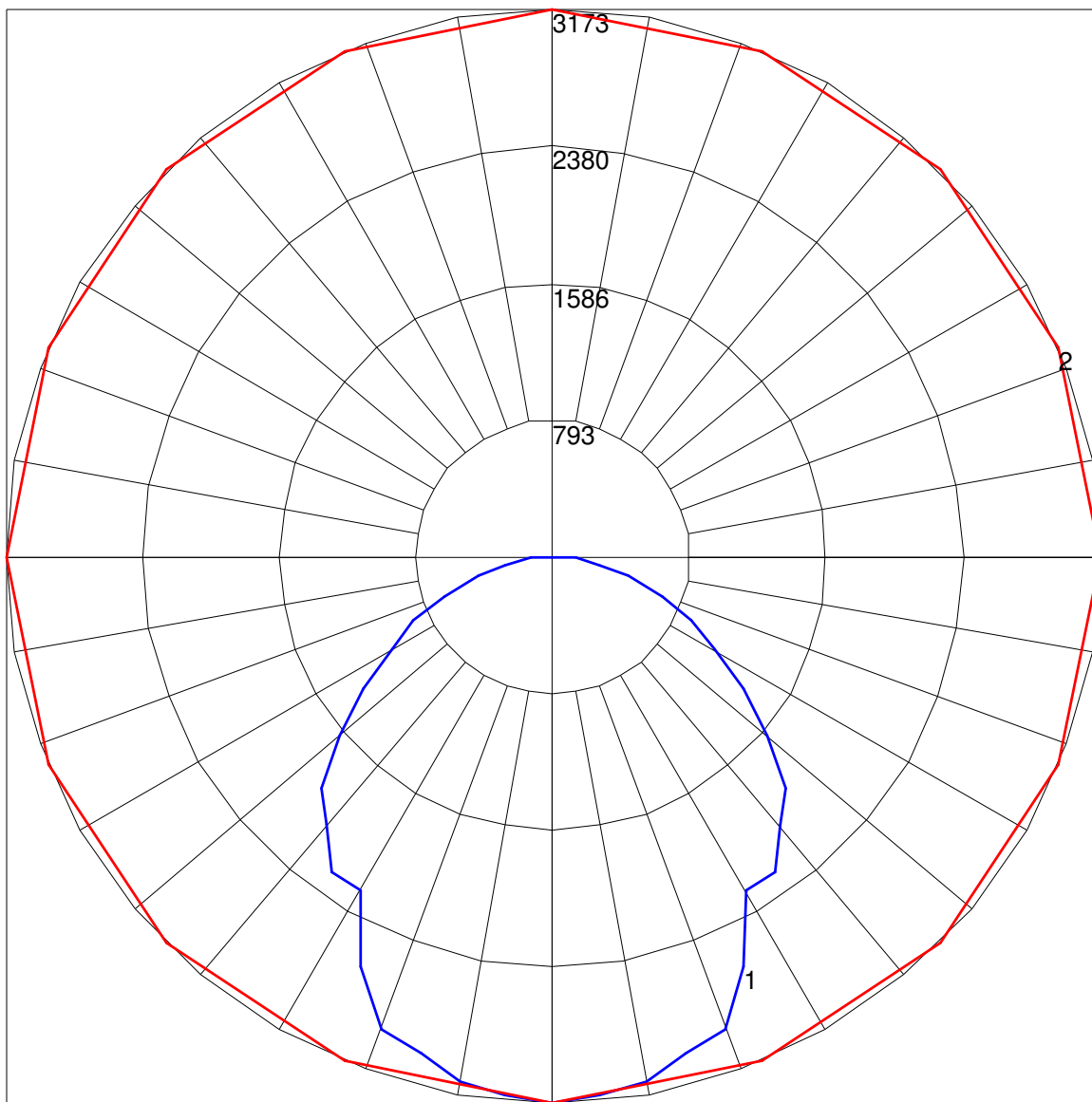
X=2H	Y=2H	16.1	17.7	16.4	18.0	18.4	17.5	19.1	17.8	19.4	19.8
	3H	17.8	19.3	18.2	19.7	20.0	19.6	21.1	20.0	21.5	21.8
	4H	18.4	19.9	18.8	20.2	20.6	20.2	21.6	20.6	21.9	22.3
	6H	18.9	20.2	19.3	20.6	21.0	20.5	21.8	20.9	22.2	22.6
	8H	19.1	20.3	19.5	20.7	21.1	20.6	21.9	21.0	22.3	22.7
	12H	19.2	20.4	19.6	20.7	21.2	20.7	21.9	21.1	22.3	22.7

UGR Viewed Endwise

4H	2H	17.0	18.4	17.4	18.8	19.2	18.1	19.5	18.5	19.9	20.2
	3H	19.0	20.2	19.4	20.6	21.0	20.5	21.7	20.9	22.1	22.5
	4H	19.8	20.8	20.2	21.2	21.7	21.1	22.1	21.5	22.6	23.0
	6H	20.4	21.3	20.8	21.7	22.2	21.5	22.5	22.0	22.9	23.4
	8H	20.5	21.4	21.0	21.9	22.3	21.7	22.6	22.2	23.0	23.5
	12H	20.7	21.5	21.2	21.9	22.4	21.8	22.6	22.3	23.1	23.6
8H	4H	20.2	21.1	20.7	21.5	22.0	21.3	22.2	21.8	22.7	23.1
	6H	20.9	21.7	21.4	22.1	22.6	21.9	22.6	22.4	23.1	23.6
	8H	21.2	21.9	21.7	22.4	22.9	22.1	22.8	22.6	23.3	23.8
	12H	21.4	22.0	21.9	22.5	23.1	22.3	22.9	22.8	23.4	23.9
12H	4H	20.2	21.0	20.7	21.5	22.0	21.4	22.2	21.8	22.6	23.1
	6H	21.0	21.7	21.5	22.1	22.7	22.0	22.6	22.5	23.1	23.6
	8H	21.3	21.9	21.8	22.4	23.0	22.2	22.8	22.7	23.3	23.9

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 3172.718 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.)