



IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-AD-EM10W-LDE1-UNV(EM MODE).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] 03-30-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4-72LED 22"ARRAYS 2x4'RECESSED WHITE LUMINAIRE w/A-SHAPED

[MORE] CENTER REFL, FROST ACRYLIC LINEAR RIBBED DIFFUSER

[LUMCAT] DIG-S24-L50-835-AD-EM10W-LDE1-UNV(EM MODE)

[LAMPCAT] M700C835D72N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1270
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	10
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	576	638	676
55	501	586	639
65	451	585	701
75	369	501	451
85	309	342	375

IES INDOOR REPORT**PHOTOMETRIC FILENAME : DIG-S24-L50-835-AD-EM10W-LDE1-UNV(EM MODE).IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	461.605	461.605	461.605	461.605	461.605
5	456.138	456.008	456.008	456.268	456.268
10	451.842	452.102	452.753	453.925	454.445
15	434.008	434.659	437.132	439.085	439.736
20	425.677	426.067	430.363	434.008	435.179
25	382.849	385.582	391.570	396.387	398.600
30	325.180	348.612	375.819	367.358	358.245
35	325.701	332.080	343.535	353.168	356.553
40	297.193	305.133	320.494	332.080	335.985
45	277.406	287.950	307.086	321.145	325.571
50	236.010	247.075	267.512	281.571	285.867
55	195.525	207.631	228.850	244.341	249.548
60	157.513	170.010	191.099	209.974	216.483
65	129.786	143.584	168.448	192.401	201.643
70	97.112	111.431	138.508	147.620	136.425
75	65.088	78.496	88.390	80.189	79.538
80	40.355	51.029	50.508	47.384	46.863
85	18.355	21.089	20.308	21.089	22.260
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : DIG-S24-L50-835-AD-EM10W-LDE1-UNV(EM MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	167.75	N.A.	13.20
0-30	348.73	N.A.	27.50
0-40	562.22	N.A.	44.30
0-60	995.07	N.A.	78.40
0-80	1245.57	N.A.	98.10
0-90	1269.94	N.A.	100.00
10-90	1226.45	N.A.	96.60
20-40	394.48	N.A.	31.10
20-50	624.74	N.A.	49.20
40-70	594.62	N.A.	46.80
60-80	250.50	N.A.	19.70
70-80	88.72	N.A.	7.00
80-90	24.37	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	1269.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.49
10-20	124.25
20-30	180.98
30-40	213.50
40-50	230.26
50-60	202.58
60-70	161.78
70-80	88.72
80-90	24.37
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-AD-EM10W-LDE1-UNV(EM MODE).IES

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-AD-EM10W-LDE1-UNV(EM MODE).IES

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	9.4	11.0	9.7	11.3	11.6	10.8	12.4	11.1	12.7	13.1
	3H	11.1	12.6	11.5	13.0	13.3	12.9	14.4	13.3	14.8	15.1
	4H	11.7	13.2	12.1	13.5	13.9	13.5	14.9	13.8	15.2	15.6
	6H	12.2	13.5	12.6	13.9	14.3	13.8	15.1	14.2	15.5	15.9
	8H	12.4	13.6	12.8	14.0	14.4	13.9	15.2	14.3	15.6	15.9
	12H	12.5	13.7	12.9	14.0	14.5	14.0	15.2	14.4	15.6	16.0

UGR Viewed Endwise

4H	2H	10.3	11.7	10.7	12.1	12.5	11.4	12.8	11.8	13.2	13.5
	3H	12.3	13.5	12.7	13.9	14.3	13.8	15.0	14.2	15.4	15.8
	4H	13.0	14.1	13.5	14.5	15.0	14.4	15.4	14.8	15.9	16.3
	6H	13.7	14.6	14.1	15.0	15.5	14.8	15.8	15.3	16.2	16.7
	8H	13.8	14.7	14.3	15.2	15.6	15.0	15.9	15.5	16.3	16.8
	12H	14.0	14.8	14.5	15.2	15.7	15.1	15.9	15.6	16.4	16.8

8H	4H	13.5	14.4	14.0	14.8	15.3	14.6	15.5	15.1	16.0	16.4
	6H	14.2	15.0	14.7	15.4	15.9	15.2	15.9	15.7	16.4	16.9
	8H	14.5	15.2	15.0	15.7	16.2	15.4	16.1	15.9	16.6	17.1
	12H	14.7	15.3	15.2	15.8	16.4	15.6	16.2	16.1	16.7	17.2

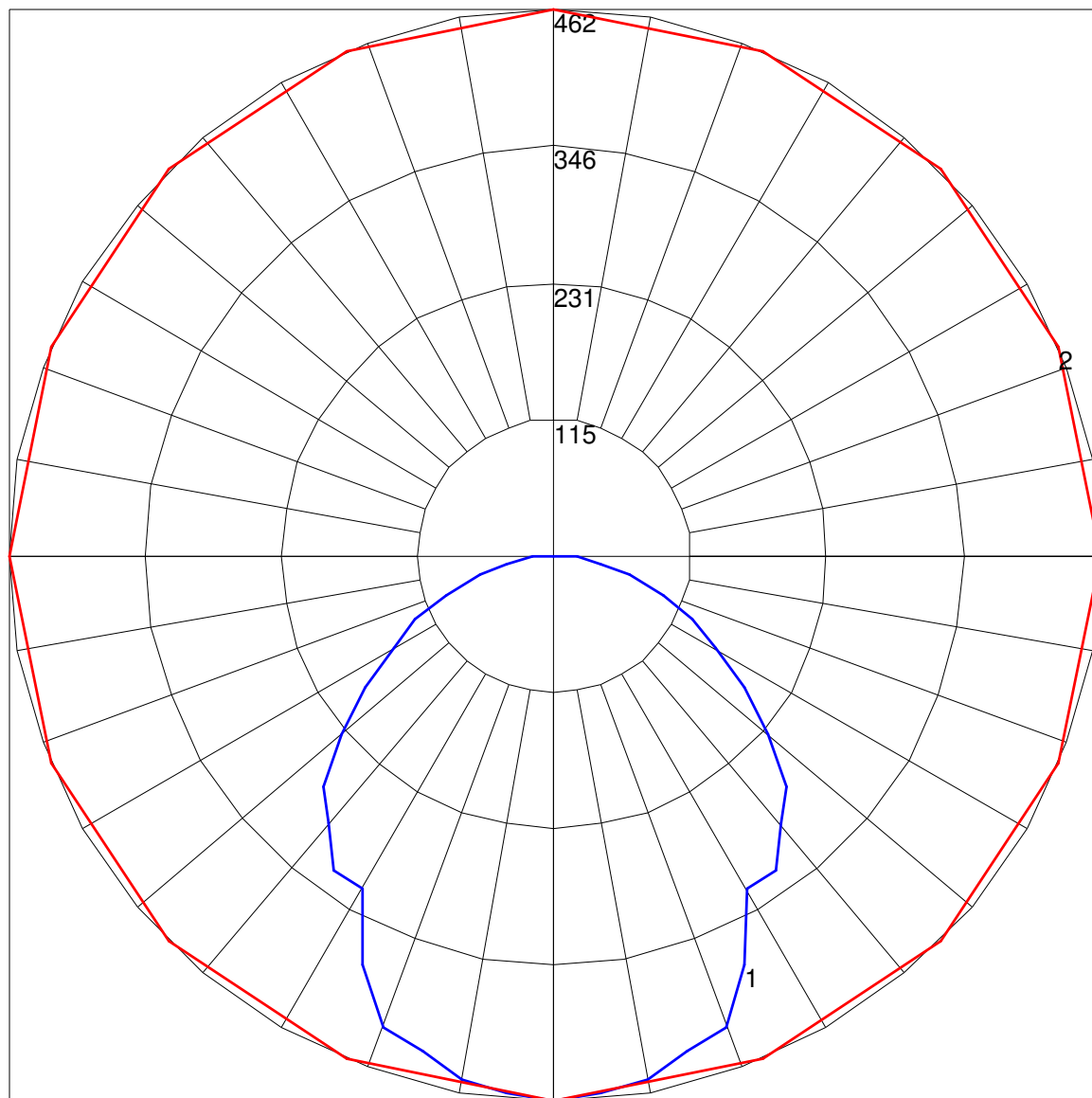
12H	4H	13.5	14.3	14.0	14.8	15.3	14.7	15.5	15.1	15.9	16.4
	6H	14.3	15.0	14.8	15.4	16.0	15.3	15.9	15.8	16.4	16.9
	8H	14.6	15.2	15.1	15.7	16.3	15.5	16.1	16.0	16.6	17.1

Maximum UGR = 17.2

IES INDOOR REPORT

PHOTOMETRIC FILENAME : DIG-S24-L50-835-AD-EM10W-LDE1-UNV(EM MODE).IES

POLAR GRAPH



Maximum Candela = 461.605 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.)