



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-2-P24-835-CPC-POE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20624.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 15-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2' SURFACE MNT LUMINAIRE

[MORE] WHITE FROST INTERIOR LENS w/CLEAR POLYCARB LENS

[LUMCAT] AVX-2-P24-8353-CPC-PoE

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR, ARCHITECTURAL, COMMERCIAL, DIRECT, LINEAR

[_SEARCH_MOUNTING] SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2444
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	21
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.64
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.90 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5085	7335	9151
55	4448	6962	8841
65	3609	6373	8027
75	1892	5221	6854
85	400	3810	5736

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : AVX-2-P24-835-CPC-POE_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	740.486	740.486	740.486	740.486	740.486
5	742.462	738.757	740.733	746.167	747.649
10	722.703	727.149	743.450	759.505	766.667
15	691.828	707.883	743.944	770.372	782.475
20	649.346	676.515	735.052	780.746	796.554
25	603.899	639.713	724.926	787.415	813.102
30	551.289	594.513	703.931	791.367	825.452
35	494.481	547.831	673.798	781.487	812.361
40	437.425	485.589	636.008	753.577	784.451
45	381.852	423.100	586.362	712.329	737.028
50	325.537	360.363	530.048	655.026	674.045
55	274.657	299.356	469.040	583.645	601.676
60	223.529	243.041	403.587	513.252	519.921
65	167.956	187.715	336.158	418.160	429.522
70	111.147	136.834	261.813	332.700	345.050
75	56.561	85.707	190.679	248.228	255.885
80	21.241	45.200	125.473	168.203	179.070
85	4.940	15.561	73.110	105.713	114.852
90	0.000	3.705	33.591	56.561	63.230
95	0.000	0.000	9.880	24.452	28.898
100	0.000	0.000	1.235	6.175	8.151
105	0.000	0.000	0.000	1.235	1.729
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AVX-2-P24-835-CPC-POE_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	279.94	N.A.	11.50
0-30	609.78	N.A.	24.90
0-40	1024.36	N.A.	41.90
0-60	1864.04	N.A.	76.30
0-80	2353.91	N.A.	96.30
0-90	2427.00	N.A.	99.30
10-90	2356.1	N.A.	96.40
20-40	744.42	N.A.	30.50
20-50	1183.65	N.A.	48.40
40-70	1147.45	N.A.	46.90
60-80	489.87	N.A.	20.00
70-80	182.10	N.A.	7.50
80-90	73.09	N.A.	3.00
90-110	17.07	N.A.	0.70
90-120	17.07	N.A.	0.70
90-130	17.07	N.A.	0.70
90-150	17.07	N.A.	0.70
90-180	17.07	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	2444.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.90
10-20	209.04
20-30	329.84
30-40	414.58
40-50	439.23
50-60	400.44
60-70	307.77
70-80	182.10
80-90	73.09
90-100	16.02
100-110	1.05
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 : AVX-2-P24-835-CPC-POE_.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	108	103	99	94	105	101	97	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	73	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	45	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	44	38	34	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AVX-2-P24-835-CPC-POE_.IES

UGR TABLE - CORRECTED

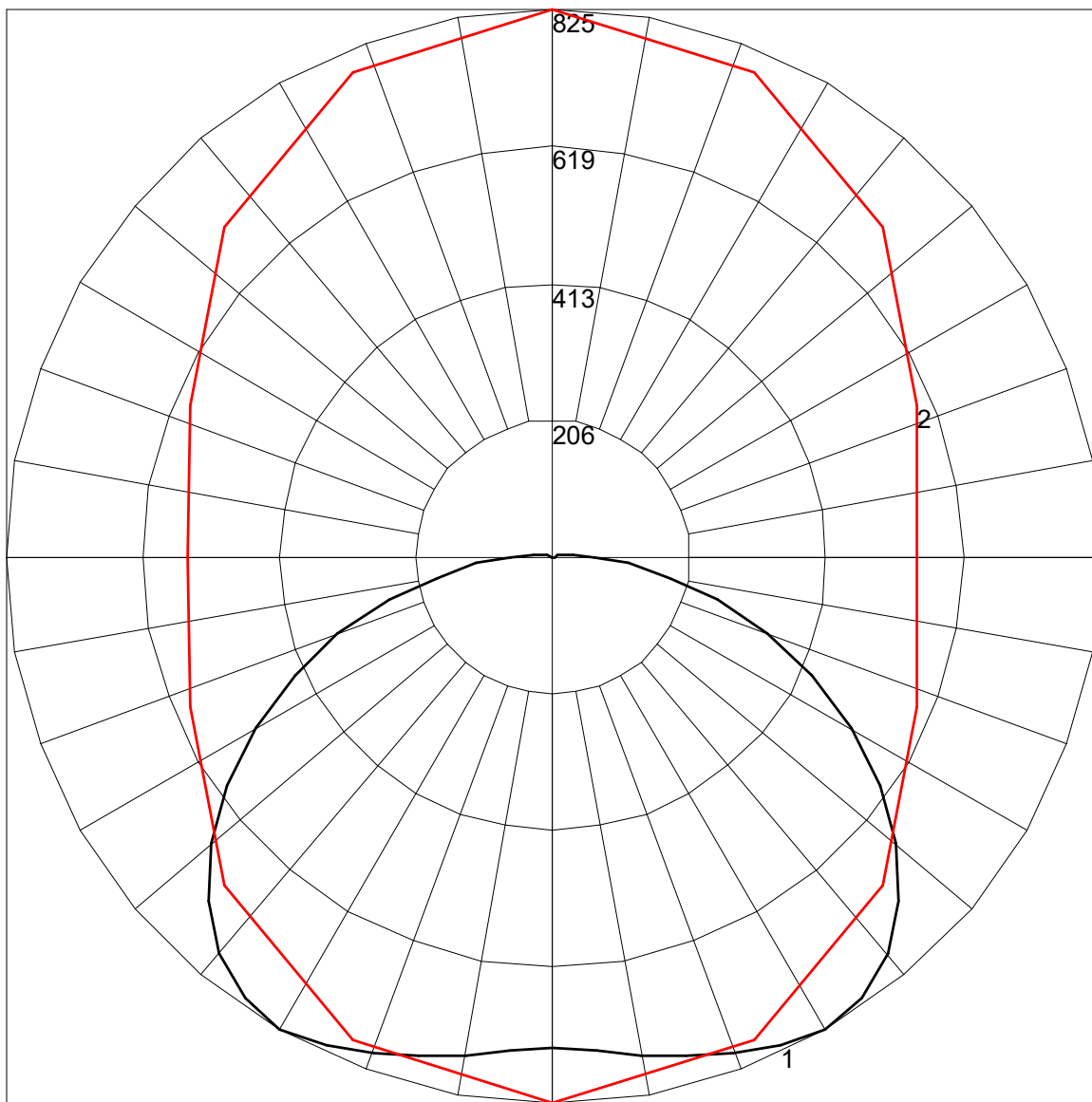
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.5	17.2	15.9	17.5	17.9	20.8	22.5	21.2	22.8	23.1
	3H	16.8	18.3	17.2	18.6	19.0	22.8	24.3	23.2	24.6	25.0
	4H	17.1	18.5	17.5	18.8	19.2	23.6	25.0	24.0	25.3	25.7
	6H	17.2	18.5	17.6	18.9	19.3	24.2	25.5	24.6	25.9	26.3
	8H	17.2	18.4	17.6	18.8	19.2	24.5	25.8	24.9	26.2	26.6
	12H	17.1	18.3	17.6	18.7	19.2	24.8	26.0	25.2	26.4	26.8
4H	2H	17.3	18.7	17.7	19.1	19.5	21.2	22.6	21.6	22.9	23.3
	3H	18.6	19.8	19.1	20.3	20.7	23.4	24.5	23.8	25.0	25.4
	4H	18.9	20.0	19.4	20.5	20.9	24.3	25.4	24.8	25.8	26.3
	6H	19.1	20.0	19.6	20.5	21.0	25.2	26.1	25.6	26.6	27.0
	8H	19.1	20.0	19.6	20.4	20.9	25.5	26.4	26.0	26.9	27.4
	12H	19.1	19.9	19.6	20.4	20.9	25.9	26.7	26.4	27.2	27.7
8H	4H	19.9	20.8	20.4	21.3	21.7	24.5	25.4	24.9	25.8	26.3
	6H	20.2	20.9	20.7	21.4	21.9	25.5	26.2	26.0	26.7	27.2
	8H	20.2	20.9	20.7	21.4	21.9	25.9	26.6	26.4	27.1	27.6
	12H	20.2	20.8	20.7	21.3	21.9	26.4	27.0	26.9	27.5	28.1
12H	4H	20.1	20.9	20.6	21.4	21.9	24.5	25.3	25.0	25.8	26.2
	6H	20.5	21.2	21.0	21.6	22.2	25.5	26.1	26.0	26.6	27.2
	8H	20.6	21.2	21.1	21.7	22.3	26.0	26.6	26.5	27.1	27.7

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 825.452 Located At Horizontal Angle = 90, Vertical Angle = 30

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)