



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-P25-835-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] 4' SURFACE MNT LUMINAIRE

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

[LUMCAT] AVX-4-P25-835-CPC-PoE

[LAMPCAT]HLM 80 CRI, TUNABLE WHITE

[_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	2518
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	22
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)	3.90 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	2592	3718	4588
55	2283	3544	4433
65	1874	3265	4025
75	1005	2706	3437
85	233	2042	2876

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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	762.907	762.907	762.907	762.907	762.907
5	764.943	761.125	763.161	768.760	770.286
10	744.585	749.165	765.960	782.501	789.881
15	712.776	729.316	766.469	793.698	806.167
20	669.007	696.999	757.308	804.386	820.672
25	622.184	659.082	746.875	811.256	837.721
30	567.981	612.514	725.245	815.328	850.445
35	509.453	564.419	694.199	805.149	836.958
40	450.670	500.292	655.265	776.394	808.203
45	393.414	435.910	604.116	733.897	759.344
50	335.394	371.274	546.097	674.859	694.454
55	282.973	308.420	483.242	601.317	619.894
60	230.297	250.400	415.807	528.793	535.663
65	173.041	193.399	346.336	430.821	442.527
70	114.512	140.977	269.740	342.774	355.497
75	58.274	88.302	196.452	255.744	263.633
80	21.885	46.568	129.272	173.295	184.492
85	5.089	16.032	75.324	108.914	118.329
90	0.000	3.817	34.608	58.274	65.145
95	0.000	0.000	10.179	25.193	29.773
100	0.000	0.000	1.272	6.362	8.398
105	0.000	0.000	0.000	1.272	1.781
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	288.42	N.A.	11.50
0-30	628.25	N.A.	24.90
0-40	1055.38	N.A.	41.90
0-60	1920.48	N.A.	76.30
0-80	2425.18	N.A.	96.30
0-90	2500.49	N.A.	99.30
10-90	2427.44	N.A.	96.40
20-40	766.96	N.A.	30.50
20-50	1219.49	N.A.	48.40
40-70	1182.19	N.A.	46.90
60-80	504.70	N.A.	20.00
70-80	187.61	N.A.	7.50
80-90	75.31	N.A.	3.00
90-110	17.58	N.A.	0.70
90-120	17.58	N.A.	0.70
90-130	17.58	N.A.	0.70
90-150	17.58	N.A.	0.70
90-180	17.58	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	2518.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.05
10-20	215.37
20-30	339.83
30-40	427.13
40-50	452.53
50-60	412.57
60-70	317.09
70-80	187.61
80-90	75.31
90-100	16.51
100-110	1.08
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	120	120	120	120	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	109	103	99	95	106	101	97	93	97	93	90	93	90	87	89	87	84	82
2	98	90	83	77	96	88	81	76	84	78	74	81	76	72	77	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	62	52	46	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	40	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	46	37	31	58	45	37	31	43	36	30	42	35	30	41	35	30	28
9	56	42	33	28	54	41	33	28	40	33	27	39	32	27	38	31	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	24	23

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UGR TABLE - CORRECTED

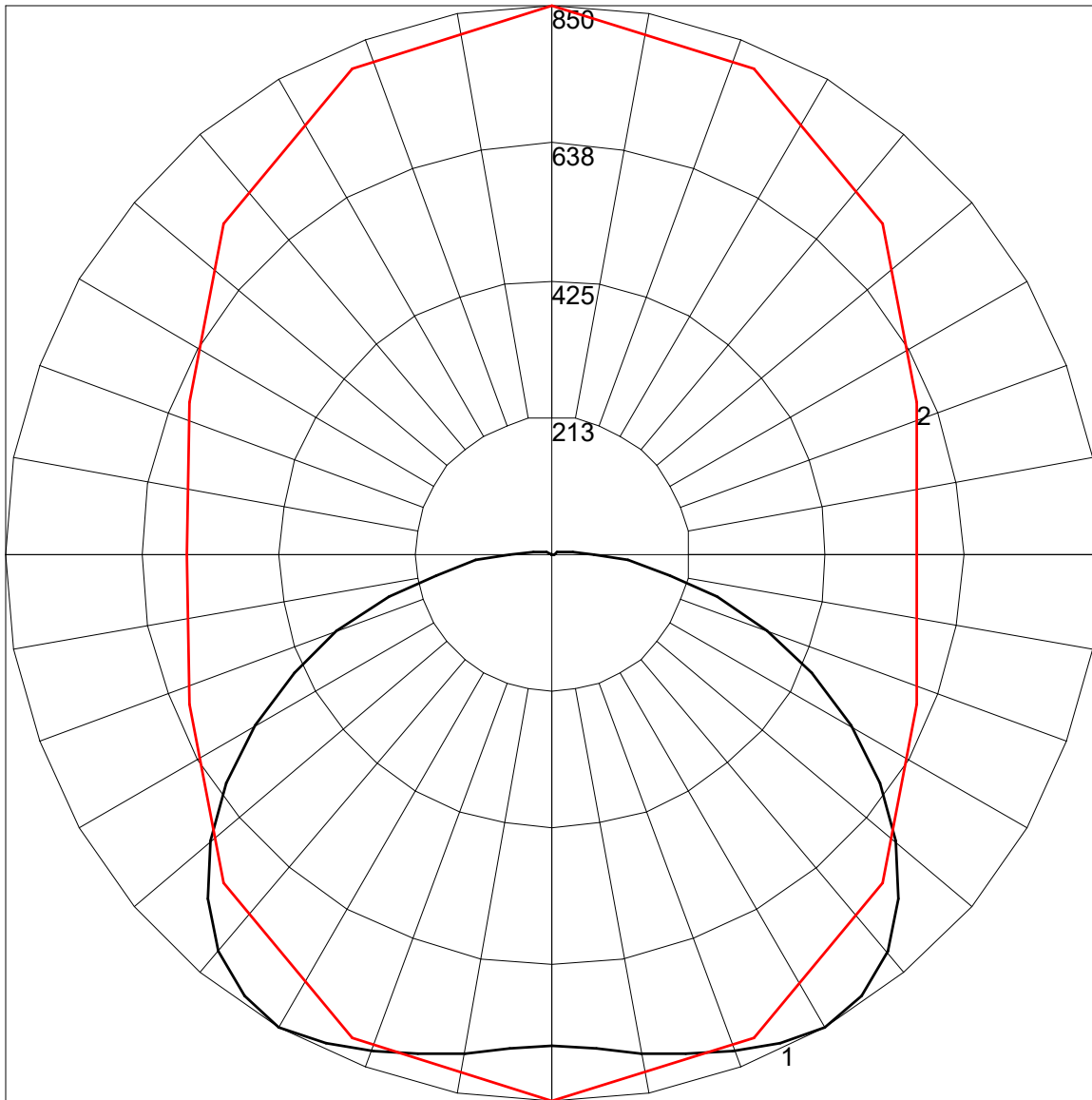
Reflectances

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	13.2	14.8	13.5	15.2	15.5	18.5	20.1	18.9	20.5	20.8
	3H	14.4	15.9	14.8	16.3	16.6	20.5	22.0	20.9	22.3	22.7
	4H	14.7	16.1	15.1	16.5	16.9	21.3	22.7	21.7	23.1	23.4
	6H	14.8	16.1	15.2	16.5	16.9	22.0	23.3	22.4	23.7	24.1
	8H	14.8	16.0	15.2	16.4	16.9	22.3	23.5	22.7	23.9	24.3
	12H	14.8	16.0	15.2	16.4	16.8	22.6	23.8	23.0	24.2	24.6
4H	2H	14.9	16.4	15.4	16.7	17.1	18.8	20.2	19.2	20.6	21.0
	3H	16.3	17.5	16.7	17.9	18.3	21.1	22.2	21.5	22.7	23.1
	4H	16.6	17.7	17.0	18.1	18.6	22.0	23.1	22.5	23.6	24.0
	6H	16.7	17.7	17.2	18.1	18.6	22.9	23.9	23.4	24.3	24.8
	8H	16.7	17.6	17.2	18.1	18.6	23.3	24.2	23.8	24.6	25.1
	12H	16.7	17.5	17.2	18.0	18.5	23.7	24.5	24.2	25.0	25.5
8H	4H	17.6	18.5	18.1	18.9	19.4	22.2	23.1	22.7	23.5	24.0
	6H	17.8	18.6	18.4	19.1	19.6	23.2	23.9	23.7	24.4	24.9
	8H	17.9	18.5	18.4	19.1	19.6	23.7	24.4	24.2	24.9	25.4
	12H	17.9	18.5	18.4	19.0	19.6	24.2	24.8	24.7	25.3	25.9
12H	4H	17.8	18.6	18.3	19.1	19.6	22.2	23.0	22.7	23.5	24.0
	6H	18.2	18.8	18.7	19.3	19.9	23.2	23.9	23.7	24.4	24.9
	8H	18.3	18.9	18.8	19.4	20.0	23.8	24.4	24.3	24.9	25.4

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 850.445 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.)