



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-2-P24-8TW-CPC-POE 4000K_.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-P24-8TW-CPC-PoE 4000k

[_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	2438
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	24
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	5072	7317	9129
55	4437	6945	8819
65	3600	6357	8008
75	1887	5208	6837
85	399	3801	5722

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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	738.668	738.668	738.668	738.668	738.668
5	740.639	736.944	738.915	744.335	745.813
10	720.928	725.363	741.625	757.640	764.785
15	690.130	706.145	742.118	768.481	780.554
20	647.751	674.854	733.248	778.829	794.598
25	602.416	638.142	723.146	785.482	811.106
30	549.936	593.054	702.203	789.424	823.425
35	493.267	546.486	672.144	779.568	810.367
40	436.351	484.397	634.447	751.727	782.525
45	380.914	422.061	584.923	710.580	735.219
50	324.738	359.479	528.747	653.418	672.390
55	273.982	298.621	467.889	582.212	600.199
60	222.980	242.445	402.596	511.992	518.645
65	167.543	187.254	335.333	417.133	428.467
70	110.874	136.498	261.170	331.883	344.203
75	56.423	85.496	190.211	247.619	255.257
80	21.189	45.089	125.165	167.790	178.631
85	4.928	15.522	72.931	105.454	114.570
90	0.000	3.696	33.509	56.423	63.075
95	0.000	0.000	9.855	24.392	28.827
100	0.000	0.000	1.232	6.160	8.131
105	0.000	0.000	0.000	1.232	1.725
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	279.26	N.A.	11.50
0-30	608.29	N.A.	24.90
0-40	1021.85	N.A.	41.90
0-60	1859.46	N.A.	76.30
0-80	2348.13	N.A.	96.30
0-90	2421.04	N.A.	99.30
10-90	2350.31	N.A.	96.40
20-40	742.59	N.A.	30.50
20-50	1180.75	N.A.	48.40
40-70	1144.63	N.A.	46.90
60-80	488.66	N.A.	20.00
70-80	181.65	N.A.	7.50
80-90	72.91	N.A.	3.00
90-110	17.03	N.A.	0.70
90-120	17.03	N.A.	0.70
90-130	17.03	N.A.	0.70
90-150	17.03	N.A.	0.70
90-180	17.03	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	2438.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.73
10-20	208.53
20-30	329.03
30-40	413.56
40-50	438.16
50-60	399.46
60-70	307.01
70-80	181.65
80-90	72.91
90-100	15.98
100-110	1.04
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	91	91	91	91	89	89	89	89	85	85	85	81	81	81	77	77	77	76
1	82	79	75	72	80	77	74	71	73	71	68	70	68	66	67	66	64	62
2	75	68	63	58	73	67	62	57	64	60	56	61	58	55	59	56	53	52
3	68	60	53	48	66	58	52	48	56	51	47	54	49	46	52	48	45	43
4	62	53	46	40	60	52	45	40	50	44	39	48	43	39	46	42	38	37
5	57	47	40	35	55	46	39	34	44	38	34	43	38	33	41	37	33	31
6	53	42	35	30	51	41	35	30	40	34	30	38	33	29	37	33	29	27
7	49	38	31	26	47	37	31	26	36	30	26	35	30	26	34	29	26	24
8	45	35	28	23	44	34	28	23	33	27	23	32	27	23	31	26	23	21
9	42	32	25	21	41	31	25	21	30	25	21	29	24	21	29	24	20	19
10	39	29	23	19	38	29	23	19	28	23	19	27	22	19	26	22	19	17

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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	16.4	18.1	16.8	18.4	18.8	21.7	23.4	22.1	23.7	24.0
	3H	17.7	19.2	18.1	19.5	19.9	23.7	25.2	24.1	25.5	25.9
	4H	18.0	19.4	18.4	19.7	20.1	24.5	25.9	24.9	26.2	26.6
	6H	18.1	19.4	18.5	19.8	20.2	25.1	26.4	25.5	26.8	27.2
	8H	18.1	19.3	18.5	19.7	20.1	25.4	26.7	25.8	27.1	27.5
	12H	18.0	19.2	18.5	19.6	20.1	25.7	26.9	26.1	27.3	27.7

UGR Viewed Endwise

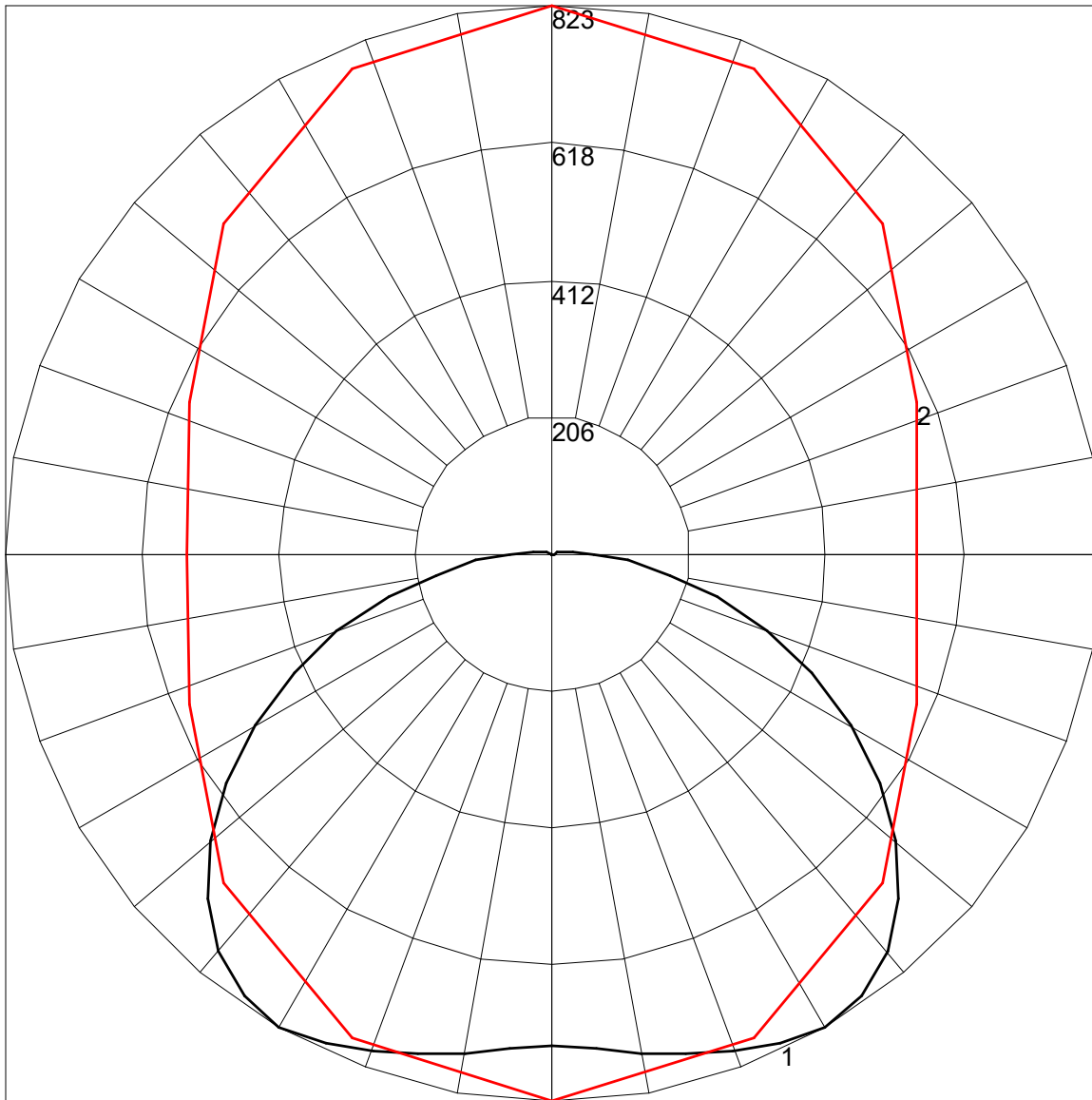
4H	2H	18.2	19.6	18.6	20.0	20.4	22.1	23.5	22.5	23.8	24.2
	3H	19.5	20.7	20.0	21.2	21.6	24.3	25.4	24.7	25.9	26.3
	4H	19.8	20.9	20.3	21.4	21.8	25.2	26.3	25.7	26.7	27.2
	6H	20.0	20.9	20.5	21.4	21.9	26.1	27.0	26.5	27.5	27.9
	8H	20.0	20.9	20.5	21.3	21.8	26.4	27.3	26.9	27.8	28.3
	12H	20.0	20.8	20.5	21.3	21.8	26.8	27.6	27.3	28.1	28.6

8H	4H	20.8	21.7	21.3	22.2	22.6	25.4	26.3	25.8	26.7	27.2
	6H	21.1	21.8	21.6	22.3	22.8	26.4	27.1	26.9	27.6	28.1
	8H	21.1	21.8	21.6	22.3	22.8	26.8	27.5	27.3	28.0	28.5
	12H	21.1	21.7	21.6	22.2	22.8	27.3	27.9	27.8	28.4	29.0

12H	4H	21.0	21.8	21.5	22.3	22.8	25.4	26.2	25.9	26.6	27.1
	6H	21.4	22.1	21.9	22.5	23.1	26.4	27.0	26.9	27.5	28.1
	8H	21.5	22.1	22.0	22.6	23.2	26.9	27.5	27.4	28.0	28.6

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 823.425 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.)