



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-P108-835-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] 8' SURFACE MNT LUMINAIRE

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

[LUMCAT] AVX-8-P108-835-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	10822
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	90
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)	7.90 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	5542	7927	9730
55	4897	7572	9400
65	4042	6997	8535
75	2195	5834	7288
85	537	4478	6099

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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	3278.865	3278.865	3278.865	3278.865	3278.865
5	3287.614	3271.209	3279.958	3304.019	3310.581
10	3200.119	3219.806	3291.989	3363.078	3394.795
15	3063.409	3134.498	3294.176	3411.200	3464.791
20	2875.295	2995.600	3254.803	3457.135	3527.131
25	2674.057	2832.641	3209.962	3486.664	3600.408
30	2441.103	2632.497	3116.999	3504.163	3655.092
35	2189.555	2425.791	2983.570	3460.416	3597.127
40	1936.914	2150.183	2816.236	3336.830	3473.540
45	1690.835	1873.481	2596.406	3154.185	3263.553
50	1441.475	1595.685	2347.046	2900.450	2984.664
55	1216.177	1325.545	2076.906	2584.375	2664.214
60	989.784	1076.185	1787.080	2272.675	2302.205
65	743.705	831.200	1488.504	1851.607	1901.916
70	492.158	605.901	1159.305	1473.192	1527.876
75	250.454	379.508	844.324	1099.152	1133.057
80	94.057	200.144	555.591	744.799	792.921
85	21.874	68.902	323.730	468.097	508.563
90	0.000	16.405	148.741	250.454	279.983
95	0.000	0.000	43.747	108.275	127.961
100	0.000	0.000	5.468	27.342	36.092
105	0.000	0.000	0.000	5.468	7.656
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	1239.58	N.A.	11.50
0-30	2700.12	N.A.	24.90
0-40	4535.86	N.A.	41.90
0-60	8253.95	N.A.	76.30
0-80	10423.08	N.A.	96.30
0-90	10746.73	N.A.	99.30
10-90	10432.77	N.A.	96.40
20-40	3296.28	N.A.	30.50
20-50	5241.2	N.A.	48.40
40-70	5080.89	N.A.	46.90
60-80	2169.13	N.A.	20.00
70-80	806.32	N.A.	7.50
80-90	323.65	N.A.	3.00
90-110	75.58	N.A.	0.70
90-120	75.58	N.A.	0.70
90-130	75.58	N.A.	0.70
90-150	75.58	N.A.	0.70
90-180	75.58	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	10822.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	313.96
10-20	925.63
20-30	1460.53
30-40	1835.75
40-50	1944.92
50-60	1773.17
60-70	1362.8
70-80	806.32
80-90	323.65
90-100	70.95
100-110	4.63
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	101	101	101	99
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	88	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	86	76	69	62	73	67	61	70	65	60	68	63	59	56
4	81	69	60	53	79	68	59	52	65	58	52	62	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	34	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

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UGR TABLE - CORRECTED

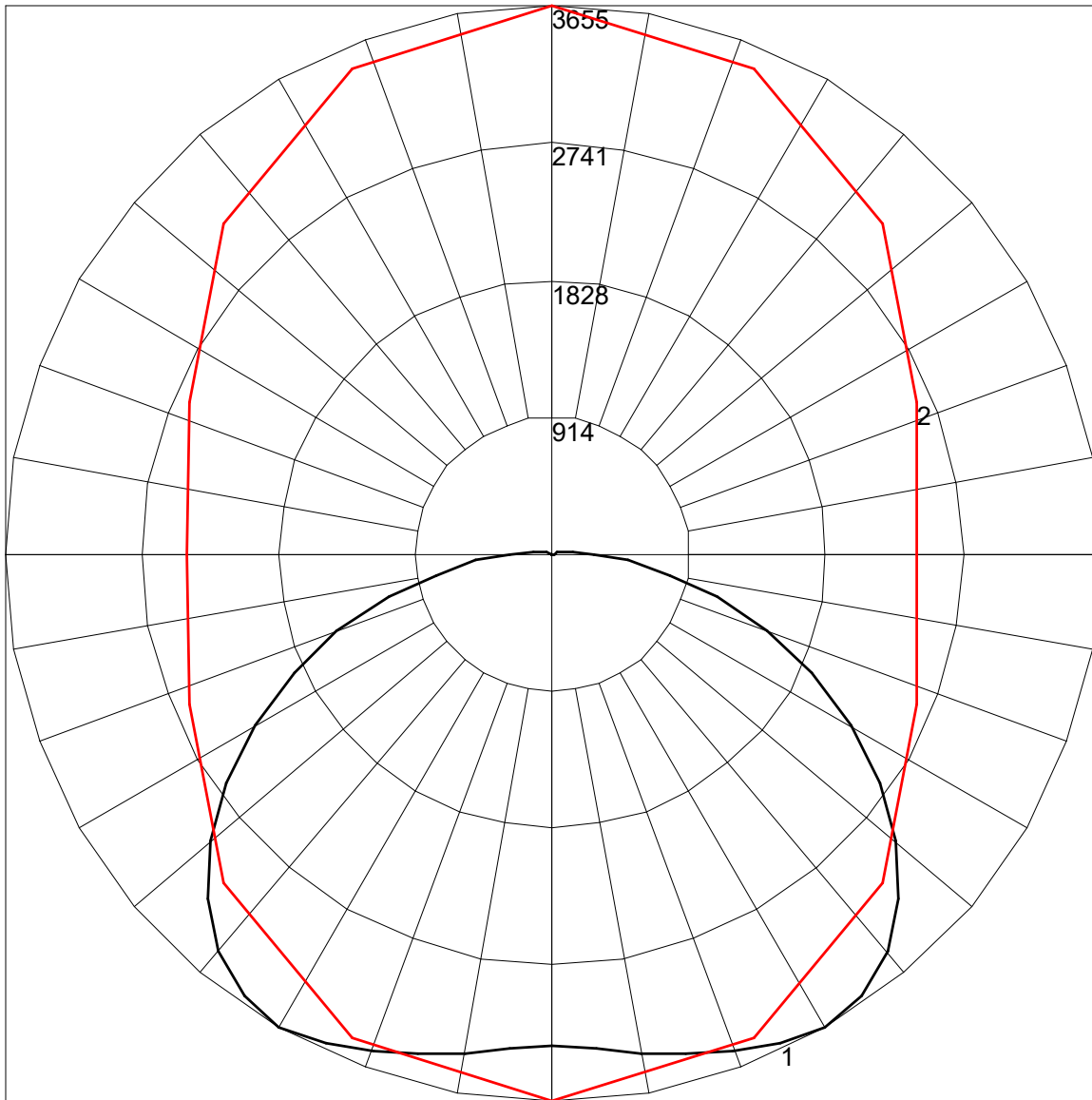
Reflectances

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	15.8	17.5	16.2	17.8	18.1	21.2	22.8	21.6	23.2	23.5
	3H	17.1	18.6	17.5	18.9	19.3	23.2	24.7	23.6	25.0	25.4
	4H	17.3	18.8	17.8	19.1	19.5	24.0	25.4	24.4	25.8	26.2
	6H	17.4	18.8	17.9	19.1	19.6	24.7	26.0	25.1	26.4	26.8
	8H	17.4	18.7	17.9	19.1	19.5	25.0	26.2	25.4	26.7	27.1
	12H	17.4	18.6	17.9	19.0	19.5	25.3	26.5	25.7	26.9	27.3
4H	2H	17.6	19.0	18.0	19.4	19.8	21.5	22.9	21.9	23.3	23.7
	3H	19.0	20.2	19.4	20.6	21.0	23.8	24.9	24.2	25.4	25.8
	4H	19.3	20.3	19.7	20.8	21.2	24.7	25.8	25.2	26.3	26.7
	6H	19.4	20.3	19.9	20.8	21.3	25.6	26.6	26.1	27.0	27.5
	8H	19.4	20.3	19.9	20.7	21.2	26.0	26.9	26.5	27.4	27.9
	12H	19.4	20.2	19.9	20.7	21.2	26.4	27.2	26.9	27.7	28.2
8H	4H	20.3	21.1	20.7	21.6	22.1	24.9	25.8	25.4	26.2	26.7
	6H	20.5	21.3	21.0	21.8	22.3	25.9	26.7	26.4	27.2	27.7
	8H	20.5	21.2	21.1	21.7	22.3	26.4	27.1	26.9	27.6	28.1
	12H	20.6	21.2	21.1	21.7	22.2	27.0	27.6	27.5	28.1	28.6
12H	4H	20.5	21.3	21.0	21.8	22.3	24.9	25.7	25.4	26.2	26.7
	6H	20.8	21.5	21.4	22.0	22.6	25.9	26.6	26.5	27.1	27.6
	8H	21.0	21.6	21.5	22.1	22.6	26.5	27.1	27.0	27.6	28.2

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 3655.092 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.)