



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-L72-835-CPC-DIM-UNV_.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-L72/835-CPC-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[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	7221
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	61
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	3698	5290	6493
55	3268	5052	6272
65	2697	4669	5695
75	1465	3893	4863
85	359	2988	4069

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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	2187.828	2187.828	2187.828	2187.828	2187.828
5	2193.666	2182.720	2188.558	2204.612	2208.991
10	2135.285	2148.421	2196.585	2244.020	2265.183
15	2044.065	2091.499	2198.045	2276.129	2311.888
20	1918.546	1998.819	2171.773	2306.779	2353.484
25	1784.269	1890.085	2141.853	2326.483	2402.378
30	1628.830	1756.538	2079.823	2338.159	2438.866
35	1460.985	1618.613	1990.792	2308.969	2400.189
40	1292.409	1434.713	1879.138	2226.505	2317.726
45	1128.213	1250.083	1732.456	2104.635	2177.611
50	961.827	1064.723	1566.070	1935.330	1991.522
55	811.496	884.472	1385.819	1724.429	1777.701
60	660.435	718.086	1192.432	1516.446	1536.150
65	496.238	554.619	993.207	1235.488	1269.057
70	328.393	404.288	773.548	982.990	1019.478
75	167.116	253.228	563.377	733.411	756.034
80	62.760	133.547	370.719	496.968	529.078
85	14.595	45.975	216.010	312.338	339.340
90	0.000	10.946	99.248	167.116	186.819
95	0.000	0.000	29.190	72.246	85.382
100	0.000	0.000	3.649	18.244	24.082
105	0.000	0.000	0.000	3.649	5.108
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	827.12	N.A.	11.50
0-30	1801.66	N.A.	24.90
0-40	3026.56	N.A.	41.90
0-60	5507.46	N.A.	76.30
0-80	6954.82	N.A.	96.30
0-90	7170.77	N.A.	99.30
10-90	6961.29	N.A.	96.40
20-40	2199.45	N.A.	30.50
20-50	3497.2	N.A.	48.40
40-70	3390.23	N.A.	46.90
60-80	1447.35	N.A.	20.00
70-80	538.02	N.A.	7.50
80-90	215.96	N.A.	3.00
90-110	50.43	N.A.	0.70
90-120	50.43	N.A.	0.70
90-130	50.43	N.A.	0.70
90-150	50.43	N.A.	0.70
90-180	50.43	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	7221.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	209.49
10-20	617.63
20-30	974.54
30-40	1224.91
40-50	1297.75
50-60	1183.15
60-70	909.33
70-80	538.02
80-90	215.96
90-100	47.34
100-110	3.09
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	103	103	103	103	101	101	101	101	96	96	96	92	92	92	88	88	88	86
1	94	89	86	82	91	87	84	81	84	81	78	80	78	75	77	75	73	71
2	85	78	71	66	83	76	70	65	73	68	64	70	66	62	67	64	61	59
3	77	68	60	55	75	66	60	54	64	58	53	61	56	52	59	55	51	49
4	71	60	52	46	69	59	51	46	56	50	45	54	49	44	52	47	44	42
5	65	53	45	39	63	52	45	39	50	44	39	49	43	38	47	42	38	36
6	60	48	40	34	58	47	39	34	45	39	34	44	38	33	42	37	33	31
7	55	43	36	30	54	43	35	30	41	34	30	40	34	29	39	33	29	27
8	51	39	32	27	50	39	32	27	38	31	26	36	30	26	35	30	26	24
9	48	36	29	24	47	36	29	24	34	28	24	34	28	23	33	27	23	22
10	45	33	26	22	44	33	26	22	32	26	21	31	25	21	30	25	21	20

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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	17.4	19.0	17.7	19.3	19.7	UGR Viewed Endwise			
	3H	18.6	20.1	19.0	20.5	20.8	22.7	24.3	23.1	24.7
	4H	18.9	20.3	19.3	20.7	21.1	24.7	26.2	25.1	26.5
	6H	19.0	20.3	19.4	20.7	21.1	25.5	26.9	25.9	27.2
	8H	19.0	20.2	19.4	20.6	21.1	26.2	27.5	26.6	27.9
	12H	19.0	20.2	19.4	20.6	21.0	26.5	27.7	26.9	28.1
							26.8	28.0	27.2	28.4

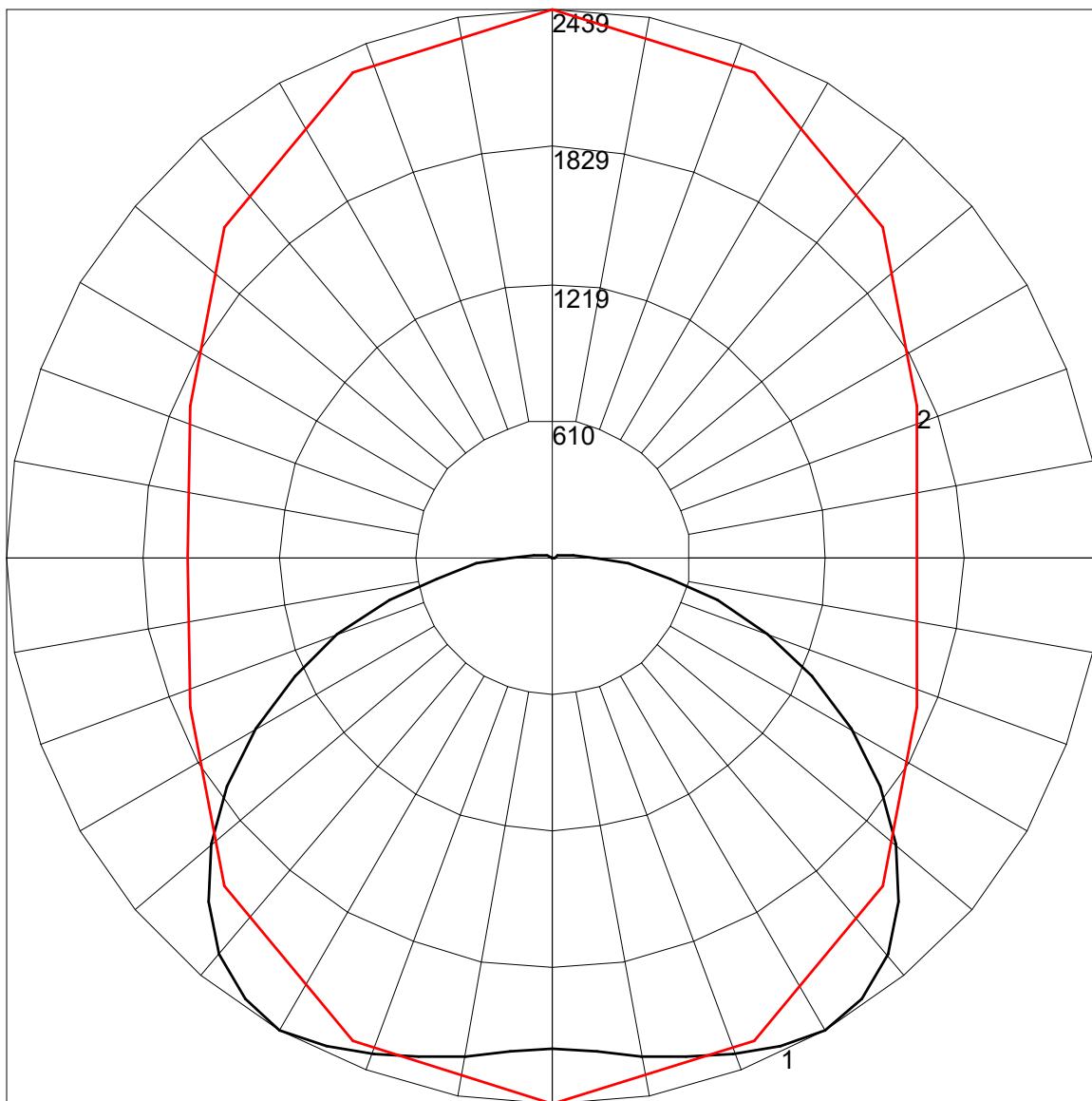
4H	2H	19.1	20.6	19.6	20.9	21.3	23.0	24.4	23.4	24.8
	3H	20.5	21.7	20.9	22.1	22.5	25.3	26.4	25.7	26.9
	4H	20.8	21.9	21.2	22.3	22.8	26.2	27.3	26.7	27.8
	6H	20.9	21.9	21.4	22.3	22.8	27.1	28.1	27.6	28.5
	8H	20.9	21.8	21.4	22.3	22.8	27.5	28.4	28.0	28.8
	12H	20.9	21.7	21.4	22.2	22.7	27.9	28.7	28.4	29.2

8H	4H	21.8	22.7	22.3	23.1	23.6	26.4	27.3	26.9	27.7
	6H	22.0	22.8	22.6	23.3	23.8	27.4	28.1	27.9	28.6
	8H	22.1	22.7	22.6	23.3	23.8	27.9	28.6	28.4	29.1
	12H	22.1	22.7	22.6	23.2	23.8	28.4	29.0	28.9	29.5

12H	4H	22.0	22.8	22.5	23.3	23.8	26.4	27.2	26.9	27.7
	6H	22.4	23.0	22.9	23.5	24.1	27.4	28.1	27.9	28.6
	8H	22.5	23.1	23.0	23.6	24.2	28.0	28.6	28.5	29.1

Maximum UGR = 30.1

POLAR GRAPH



Maximum Candela = 2438.866 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.)