



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-2-L42-835-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] 2' SURFACE MNT LUMINAIRE

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

[LUMCAT] AVX-2-L42/835-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	4279
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	37
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	8902	12842	16023
55	7787	12190	15479
65	6319	11158	14054
75	3312	9141	12000
85	700	6671	10042

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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	1296.457	1296.457	1296.457	1296.457	1296.457
5	1299.916	1293.430	1296.889	1306.403	1308.998
10	1265.321	1273.105	1301.646	1329.755	1342.296
15	1211.266	1239.375	1302.511	1348.782	1369.972
20	1136.886	1184.455	1286.943	1366.945	1394.621
25	1057.317	1120.021	1269.213	1378.621	1423.594
30	965.207	1040.885	1232.456	1385.540	1445.217
35	865.746	959.153	1179.698	1368.242	1422.297
40	765.852	850.178	1113.535	1319.376	1373.431
45	668.553	740.771	1026.614	1247.159	1290.403
50	569.957	630.931	928.018	1146.832	1180.130
55	480.874	524.118	821.205	1021.857	1053.425
60	391.359	425.522	706.608	898.612	910.287
65	294.060	328.655	588.552	732.122	752.014
70	194.598	239.572	458.387	582.497	604.120
75	99.029	150.057	333.844	434.603	448.008
80	37.190	79.137	219.680	294.492	313.519
85	8.649	27.244	128.002	185.085	201.085
90	0.000	6.487	58.812	99.029	110.705
95	0.000	0.000	17.298	42.812	50.596
100	0.000	0.000	2.162	10.811	14.271
105	0.000	0.000	0.000	2.162	3.027
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	490.13	N.A.	11.50
0-30	1067.62	N.A.	24.90
0-40	1793.47	N.A.	41.90
0-60	3263.6	N.A.	76.30
0-80	4121.27	N.A.	96.30
0-90	4249.24	N.A.	99.30
10-90	4125.1	N.A.	96.40
20-40	1303.34	N.A.	30.50
20-50	2072.36	N.A.	48.40
40-70	2008.98	N.A.	46.90
60-80	857.67	N.A.	20.00
70-80	318.82	N.A.	7.50
80-90	127.97	N.A.	3.00
90-110	29.88	N.A.	0.70
90-120	29.88	N.A.	0.70
90-130	29.88	N.A.	0.70
90-150	29.88	N.A.	0.70
90-180	29.88	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	4279.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.14
10-20	365.99
20-30	577.49
30-40	725.85
40-50	769.02
50-60	701.11
60-70	538.85
70-80	318.82
80-90	127.97
90-100	28.05
100-110	1.83
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	210	210	210	210	205	205	205	205	196	196	196	187	187	187	179	179	179	176
1	191	182	174	167	186	178	170	164	170	164	158	163	158	153	156	152	148	145
2	173	158	145	135	168	154	143	133	148	138	129	142	133	126	136	129	123	119
3	157	138	123	111	153	135	121	110	129	118	108	124	114	106	120	111	104	100
4	144	122	106	93	139	119	104	93	115	102	91	110	99	90	106	97	89	85
5	132	108	92	80	128	106	91	80	102	89	78	99	87	77	95	85	77	73
6	121	97	81	69	118	96	80	69	92	79	68	89	77	68	86	75	67	63
7	112	88	72	61	109	87	71	61	84	70	60	81	69	60	78	67	59	56
8	105	80	65	54	102	79	64	54	76	63	54	74	62	53	72	61	53	49
9	98	73	59	49	95	72	58	48	70	57	48	68	56	48	66	55	47	44
10	91	68	53	44	89	67	53	44	65	52	43	63	51	43	61	51	43	40

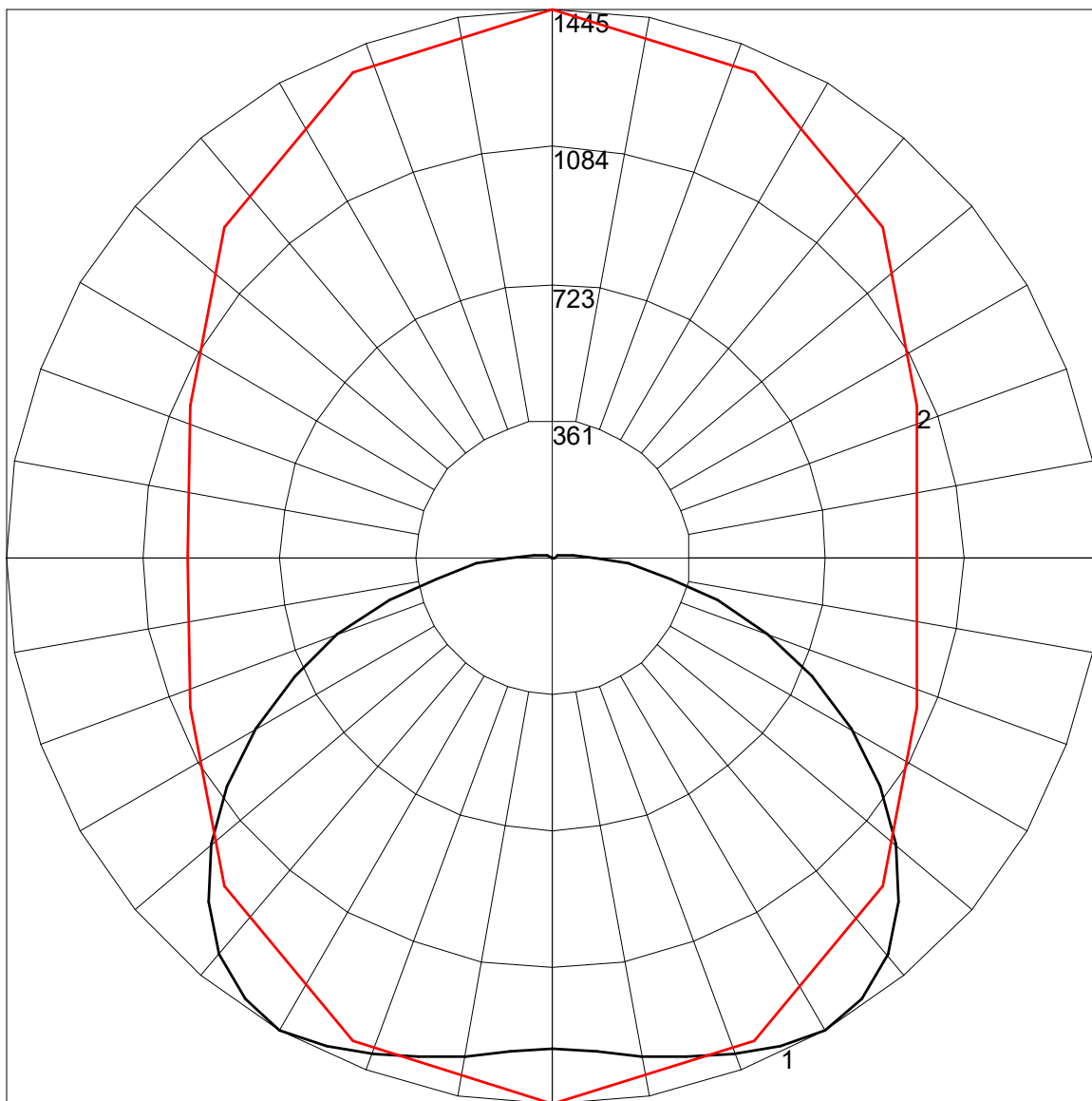
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UGR TABLE - CORRECTED

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	15.5	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 = 1445.217 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.)