



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L36-835-WPC-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20625.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 03-17-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4'SURFACE MNT LUMINAIRE

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

[LUMCAT] AVX-4-L36/835-WPC-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	2537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	31
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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	3974	3617	3499
55	3776	3364	3215
65	3403	2892	2804
75	2549	2196	2284
85	758	1508	1910

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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	880.882	880.882	880.882	880.882	880.882
5	892.161	880.130	874.490	871.859	870.355
10	880.130	867.347	861.708	859.452	856.820
15	861.708	849.677	843.285	840.278	837.646
20	835.390	822.608	817.344	813.960	811.705
25	804.185	792.906	785.387	780.124	777.868
30	762.829	751.926	744.783	740.648	736.888
35	718.466	706.435	698.916	691.772	691.396
40	665.455	651.920	647.033	641.769	636.506
45	603.045	596.654	587.630	581.991	578.983
50	539.131	531.988	524.093	518.077	516.573
55	468.074	462.059	458.675	450.404	449.652
60	394.009	386.866	383.107	380.475	377.091
65	314.305	306.786	306.786	307.162	308.290
70	230.465	228.210	230.841	234.977	233.473
75	147.754	151.137	159.408	173.319	175.199
80	69.177	80.080	100.382	118.052	124.068
85	16.542	31.581	55.643	73.313	78.576
90	0.000	7.519	25.190	39.852	45.116
95	0.000	0.000	7.519	17.294	21.054
100	0.000	0.000	0.752	4.512	7.519
105	0.000	0.000	0.000	0.376	1.504
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	321.96	N.A.	12.70
0-30	684.63	N.A.	27.00
0-40	1122.73	N.A.	44.30
0-60	1985.33	N.A.	78.30
0-80	2462.45	N.A.	97.10
0-90	2524.18	N.A.	99.50
10-90	2440.88	N.A.	96.20
20-40	800.77	N.A.	31.60
20-50	1255.12	N.A.	49.50
40-70	1167.44	N.A.	46.00
60-80	477.12	N.A.	18.80
70-80	172.28	N.A.	6.80
80-90	61.73	N.A.	2.40
90-110	12.70	N.A.	0.50
90-120	12.70	N.A.	0.50
90-130	12.70	N.A.	0.50
90-150	12.70	N.A.	0.50
90-180	12.70	N.A.	0.50
110-180	0.00	N.A.	0.00
0-180	2536.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.30
10-20	238.66
20-30	362.67
30-40	438.10
40-50	454.35
50-60	408.25
60-70	304.83
70-80	172.28
80-90	61.73
90-100	11.94
100-110	0.75
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	102	102	102	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	76	63	54	47	73	61	53	47	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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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	16.2	17.8	16.6	18.2	18.5	16.3	17.9	16.7	18.3	18.6
	3H	17.8	19.2	18.2	19.6	20.0	18.1	19.5	18.5	19.9	20.3
	4H	18.2	19.6	18.7	20.0	20.4	18.8	20.2	19.2	20.5	20.9
	6H	18.5	19.8	18.9	20.1	20.6	19.4	20.7	19.9	21.1	21.5
	8H	18.5	19.7	19.0	20.2	20.6	19.7	20.9	20.2	21.3	21.8
	12H	18.5	19.7	19.0	20.1	20.5	20.0	21.1	20.4	21.5	22.0

UGR Viewed Endwise

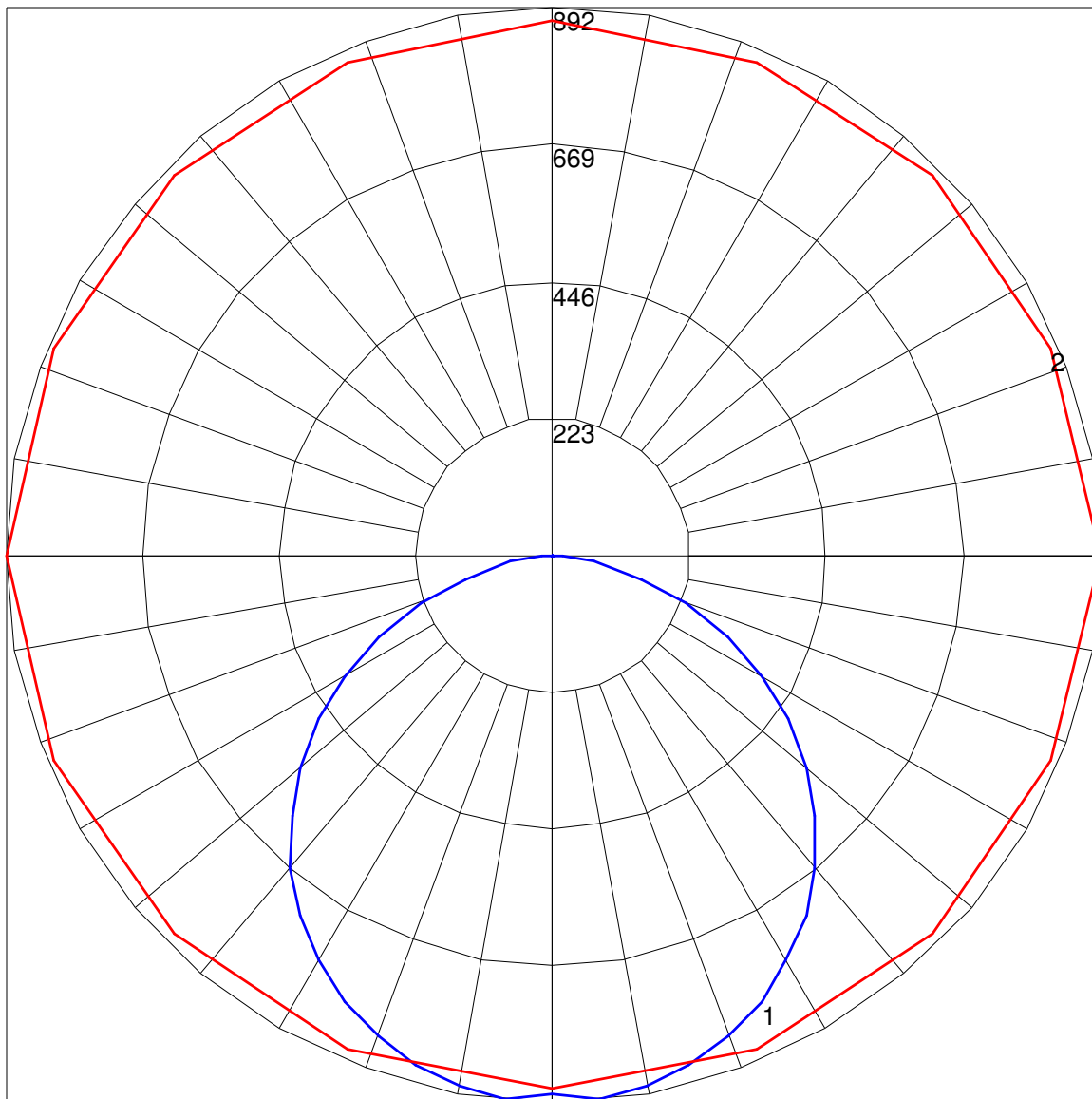
4H	2H	16.8	18.2	17.2	18.5	18.9	16.9	18.2	17.3	18.6	19.0
	3H	18.5	19.7	19.0	20.1	20.5	18.8	20.0	19.3	20.4	20.8
	4H	19.1	20.2	19.6	20.6	21.1	19.7	20.7	20.1	21.2	21.6
	6H	19.5	20.4	19.9	20.8	21.3	20.5	21.4	20.9	21.8	22.3
	8H	19.5	20.4	20.0	20.8	21.3	20.8	21.7	21.3	22.1	22.6
	12H	19.6	20.3	20.0	20.8	21.3	21.2	21.9	21.7	22.4	22.9

8H	4H	19.4	20.3	19.9	20.7	21.2	19.9	20.8	20.4	21.2	21.7
	6H	19.8	20.6	20.3	21.1	21.6	20.8	21.5	21.3	22.0	22.5
	8H	20.0	20.6	20.5	21.1	21.6	21.3	21.9	21.8	22.4	22.9
	12H	20.0	20.6	20.5	21.1	21.7	21.7	22.3	22.3	22.8	23.4

12H	4H	19.5	20.2	20.0	20.7	21.2	19.9	20.7	20.4	21.2	21.7
	6H	19.9	20.6	20.5	21.0	21.6	20.9	21.5	21.4	22.0	22.5
	8H	20.1	20.6	20.6	21.1	21.7	21.4	21.9	21.9	22.4	23.0

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 892.161 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)