H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AVX-4-L62-835-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-L62/835-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	4315
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	57
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	6758	6152	5950
55	6423	5722	5469
65	5788	4919	4769
75	4335	3735	3884
85	1290	2565	3248

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1498.228	1498.228	1498.228	1498.228	1498.228
5	1517.412	1496.949	1487.358	1482.882	1480.324
10	1496.949	1475.208	1465.616	1461.780	1457.304
15	1465.616	1445.154	1434.283	1429.168	1424.692
20	1420.855	1399.114	1390.161	1384.406	1380.570
25	1367.781	1348.597	1335.808	1326.856	1323.019
30	1297.441	1278.897	1266.748	1259.714	1253.319
35	1221.986	1201.524	1188.735	1176.586	1175.946
40	1131.824	1108.804	1100.491	1091.539	1082.587
45	1025.676	1014.805	999.458	989.867	984.751
50	916.969	904.820	891.391	881.160	878.603
55	796.114	785.882	780.127	766.060	764.781
60	670.142	657.993	651.598	647.122	641.367
65	534.579	521.790	521.790	522.430	524.348
70	391.982	388.145	392.622	399.655	397.098
75	251.303	257.058	271.126	294.786	297.983
80	117.659	136.203	170.733	200.787	211.018
85	28.136	53.714	94.638	124.692	133.645
90	0.000	12.789	42.843	67.782	76.734
95	0.000	0.000	12.789	29.415	35.809
100	0.000	0.000	1.279	7.673	12.789
105	0.000	0.000	0.000	0.639	2.558
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

Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	547.60	N.A.	12.70
0-30	1164.44	N.A.	27.00
0-40	1909.58	N.A.	44.30
0-60	3376.71	N.A.	78.30
0-80	4188.21	N.A.	97.10
0-90	4293.2	N.A.	99.50
10-90	4151.52	N.A.	96.20
20-40	1361.97	N.A.	31.60
20-50	2134.75	N.A.	49.50
40-70	1985.61	N.A.	46.00
60-80	811.49	N.A.	18.80
70-80	293.02	N.A.	6.80
80-90	105.00	N.A.	2.40
90-110	21.59	N.A.	0.50
90-120	21.59	N.A.	0.50
90-130	21.59	N.A.	0.50
90-150	21.59	N.A.	0.50
90-180	21.59	N.A.	0.50
110-180	0.00	N.A.	0.00
0-180	4314.8	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.68
10-20	405.92
20-30	616.83
30-40	745.14
40-50	772.78
50-60	694.36
60-70	518.47
70-80	293.02
80-90	105.00
90-100	20.31
100-110	1.28
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					UGR Viewed Endwise				
X=2H	Y=2H	18.1	19.7	18.5	20.1	20.4	18.2	19.8	18.6	20.2	20.5
	3H	19.7	21.1	20.1	21.5	21.9	20.0	21.4	20.4	21.8	22.2
	4H	20.1	21.5	20.6	21.9	22.3	20.7	22.1	21.1	22.4	22.8
	6H	20.4	21.7	20.8	22.0	22.5	21.3	22.6	21.8	23.0	23.4
	8H	20.4	21.6	20.9	22.1	22.5	21.6	22.8	22.1	23.2	23.7
	12H	20.4	21.6	20.9	22.0	22.4	21.9	23.0	22.3	23.4	23.9
4H	2H	18.7	20.1	19.1	20.4	20.8	18.8	20.1	19.2	20.5	20.9
	3H	20.4	21.6	20.9	22.0	22.4	20.7	21.9	21.2	22.3	22.7
	4H	21.0	22.1	21.5	22.5	23.0	21.6	22.6	22.0	23.1	23.5
	6H	21.4	22.3	21.8	22.7	23.2	22.4	23.3	22.8	23.7	24.2
	8H	21.4	22.3	21.9	22.7	23.2	22.7	23.6	23.2	24.0	24.5
	12H	21.5	22.2	21.9	22.7	23.2	23.1	23.8	23.6	24.3	24.8
8H	4H	21.3	22.2	21.8	22.6	23.1	21.8	22.7	22.3	23.1	23.6
	6H	21.7	22.5	22.2	23.0	23.5	22.7	23.4	23.2	23.9	24.4
	8H	21.9	22.5	22.4	23.0	23.5	23.2	23.8	23.7	24.3	24.8
	12H	21.9	22.5	22.4	23.0	23.6	23.6	24.2	24.2	24.7	25.3
12H	4H	21.4	22.1	21.9	22.6	23.1	21.8	22.6	22.3	23.1	23.6
	6H	21.8	22.5	22.4	22.9	23.5	22.8	23.4	23.3	23.9	24.4
	8H	22.0	22.5	22.5	23.0	23.6	23.3	23.8	23.8	24.3	24.9

Maximum UGR = 25.3

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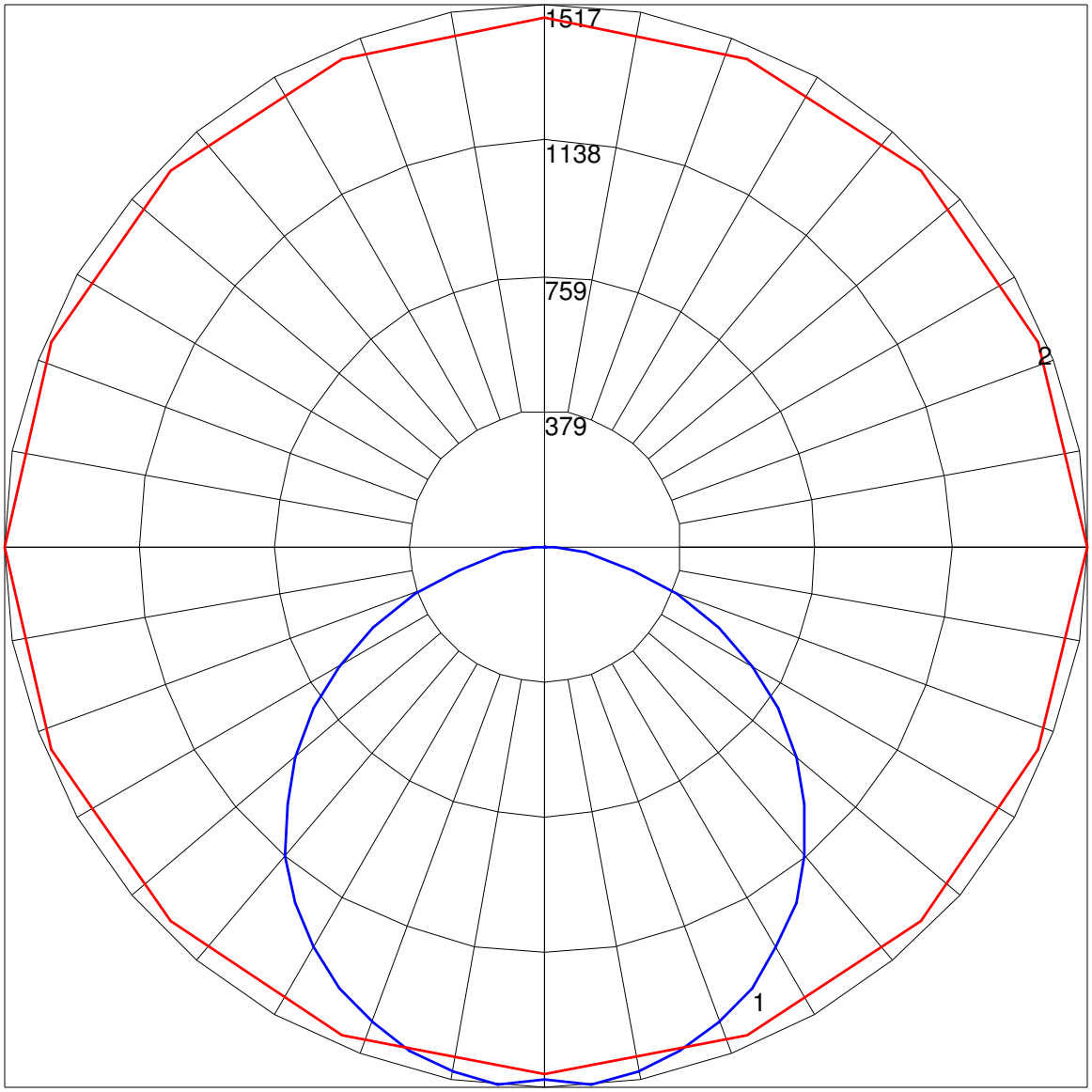
POLAR GRAPH



Maximum Candela = 1517.412 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.)