



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L62-840-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] 03-06-2024

[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-L62-840-WPC-DIM-UNV

[LAMPCAT] HLM 80 CRI, 4000K 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	4445
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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	6963	6338	6130
55	6617	5895	5634
65	5963	5068	4913
75	4467	3848	4002
85	1329	2643	3346

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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	1543.540	1543.540	1543.540	1543.540	1543.540
5	1563.303	1542.222	1532.340	1527.729	1525.094
10	1542.222	1519.823	1509.942	1505.989	1501.377
15	1509.942	1488.860	1477.661	1472.391	1467.779
20	1463.826	1441.428	1432.205	1426.276	1422.323
25	1409.147	1389.383	1376.208	1366.985	1363.032
30	1336.680	1317.576	1305.059	1297.812	1291.224
35	1258.943	1237.862	1224.686	1212.170	1211.511
40	1166.054	1142.338	1133.774	1124.551	1115.328
45	1056.696	1045.496	1029.685	1019.803	1014.533
50	944.702	932.185	918.350	907.810	905.174
55	820.191	809.650	803.721	789.228	787.910
60	690.410	677.893	671.305	666.693	660.764
65	550.747	537.571	537.571	538.230	540.206
70	403.837	399.884	404.496	411.742	409.107
75	258.904	264.833	279.326	303.701	306.995
80	121.217	140.322	175.896	206.859	217.400
85	28.987	55.338	97.501	128.464	137.687
90	0.000	13.176	44.139	69.832	79.055
95	0.000	0.000	13.176	30.304	36.892
100	0.000	0.000	1.318	7.905	13.176
105	0.000	0.000	0.000	0.659	2.635
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	564.17	N.A.	12.70
0-30	1199.65	N.A.	27.00
0-40	1967.33	N.A.	44.30
0-60	3478.84	N.A.	78.30
0-80	4314.87	N.A.	97.10
0-90	4423.05	N.A.	99.50
10-90	4277.08	N.A.	96.20
20-40	1403.16	N.A.	31.60
20-50	2199.31	N.A.	49.50
40-70	2045.66	N.A.	46.00
60-80	836.04	N.A.	18.80
70-80	301.88	N.A.	6.80
80-90	108.17	N.A.	2.40
90-110	22.25	N.A.	0.50
90-120	22.25	N.A.	0.50
90-130	22.25	N.A.	0.50
90-150	22.25	N.A.	0.50
90-180	22.25	N.A.	0.50
110-180	0.00	N.A.	0.00
0-180	4445.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	145.97
10-20	418.20
20-30	635.49
30-40	767.68
40-50	796.15
50-60	715.36
60-70	534.15
70-80	301.88
80-90	108.17
90-100	20.93
100-110	1.32
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	100
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	78	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	50	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	18.2	19.8	18.6	20.1	20.5	18.3	19.9	18.7	20.3	20.6
	3H	19.8	21.2	20.2	21.6	22.0	20.1	21.5	20.5	21.9	22.3
	4H	20.2	21.6	20.7	22.0	22.4	20.8	22.2	21.2	22.5	22.9
	6H	20.5	21.8	20.9	22.1	22.6	21.4	22.7	21.9	23.1	23.5
	8H	20.5	21.7	21.0	22.2	22.6	21.7	22.9	22.2	23.3	23.8
	12H	20.5	21.7	21.0	22.1	22.5	22.0	23.1	22.4	23.5	24.0

UGR Viewed Endwise

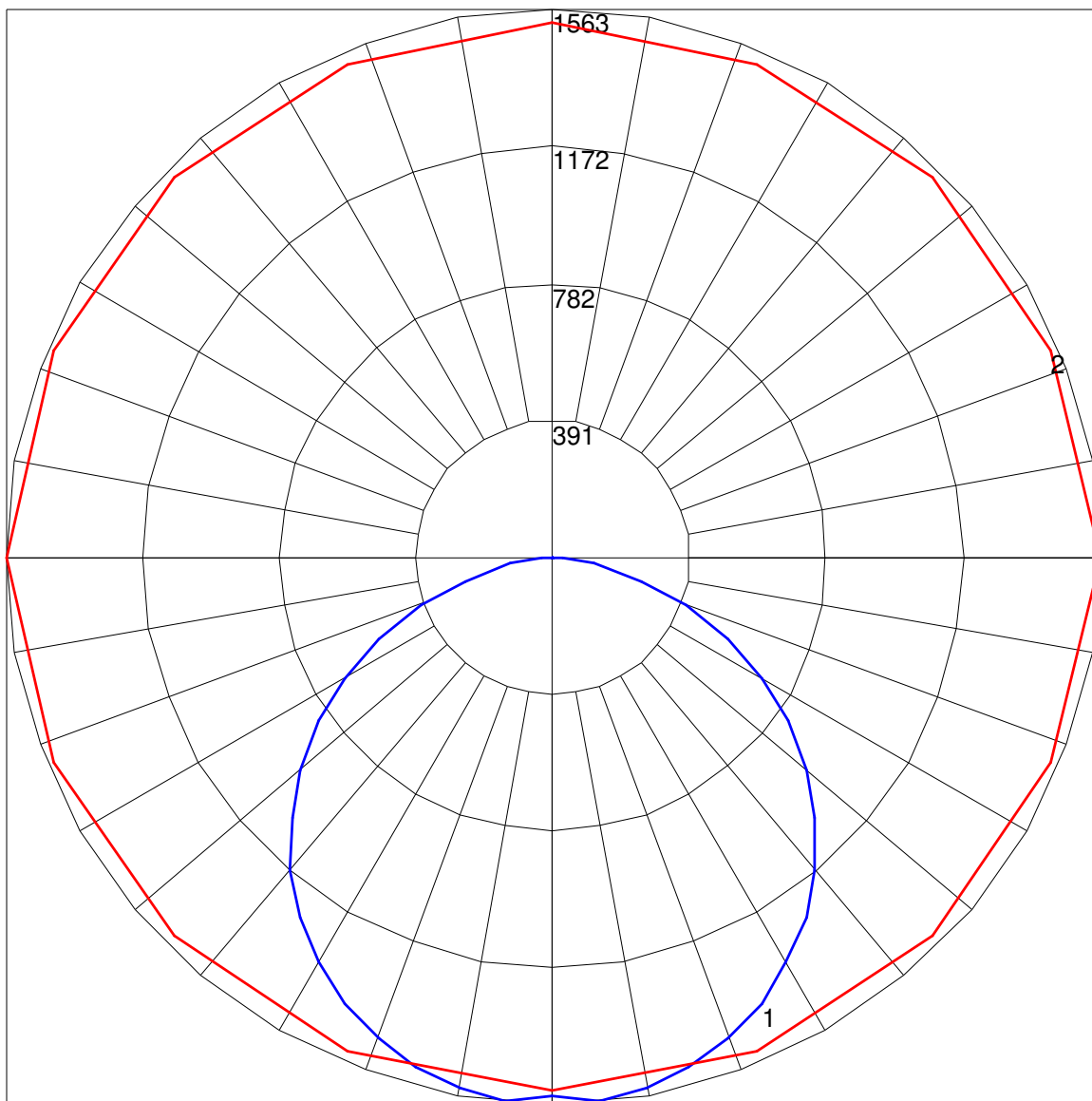
4H	2H	18.8	20.2	19.2	20.5	20.9	18.9	20.2	19.3	20.6	21.0
	3H	20.5	21.7	21.0	22.1	22.5	20.8	22.0	21.3	22.4	22.8
	4H	21.1	22.2	21.6	22.6	23.1	21.7	22.7	22.1	23.2	23.6
	6H	21.5	22.4	21.9	22.8	23.3	22.5	23.4	22.9	23.8	24.3
	8H	21.5	22.4	22.0	22.8	23.3	22.8	23.7	23.3	24.1	24.6
	12H	21.6	22.3	22.0	22.8	23.3	23.2	23.9	23.7	24.4	24.9

8H	4H	21.4	22.3	21.9	22.7	23.2	21.9	22.8	22.4	23.2	23.7
	6H	21.8	22.6	22.3	23.1	23.6	22.8	23.5	23.3	24.0	24.5
	8H	22.0	22.6	22.5	23.1	23.6	23.3	23.9	23.8	24.4	24.9
	12H	22.0	22.6	22.5	23.1	23.7	23.7	24.3	24.3	24.8	25.4

12H	4H	21.5	22.2	22.0	22.7	23.2	21.9	22.7	22.4	23.2	23.7
	6H	21.9	22.6	22.5	23.0	23.6	22.9	23.5	23.4	24.0	24.5
	8H	22.1	22.6	22.6	23.1	23.7	23.4	23.9	23.9	24.4	25.0

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 1563.303 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.)