



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-L62-840-WPC-EM10WLP-DIM-UNV_EMER MODE.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20625.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 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-EM10WLP-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	780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	10
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	1222	1112	1076
55	1161	1034	989
65	1046	889	862
75	784	675	702
85	233	464	587

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	270.827	270.827	270.827	270.827	270.827
5	274.295	270.596	268.862	268.053	267.590
10	270.596	266.666	264.932	264.238	263.429
15	264.932	261.233	259.268	258.343	257.534
20	256.841	252.910	251.292	250.252	249.558
25	247.247	243.779	241.467	239.849	239.155
30	234.532	231.180	228.983	227.712	226.556
35	220.892	217.193	214.881	212.685	212.570
40	204.594	200.433	198.930	197.312	195.694
45	185.406	183.441	180.667	178.933	178.008
50	165.756	163.560	161.132	159.283	158.820
55	143.909	142.060	141.020	138.477	138.245
60	121.138	118.942	117.786	116.977	115.937
65	96.633	94.321	94.321	94.437	94.784
70	70.857	70.163	70.972	72.244	71.781
75	45.427	46.467	49.010	53.287	53.865
80	21.269	24.621	30.862	36.295	38.145
85	5.086	9.710	17.107	22.540	24.158
90	0.000	2.312	7.745	12.253	13.871
95	0.000	0.000	2.312	5.317	6.473
100	0.000	0.000	0.231	1.387	2.312
105	0.000	0.000	0.000	0.116	0.462
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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Zone	Lumens	%Lamp	%Fixt
0-20	98.99	N.A.	12.70
0-30	210.49	N.A.	27.00
0-40	345.18	N.A.	44.30
0-60	610.39	N.A.	78.30
0-80	757.08	N.A.	97.10
0-90	776.06	N.A.	99.50
10-90	750.45	N.A.	96.20
20-40	246.20	N.A.	31.60
20-50	385.89	N.A.	49.50
40-70	358.93	N.A.	46.00
60-80	146.69	N.A.	18.80
70-80	52.97	N.A.	6.80
80-90	18.98	N.A.	2.40
90-110	3.90	N.A.	0.50
90-120	3.90	N.A.	0.50
90-130	3.90	N.A.	0.50
90-150	3.90	N.A.	0.50
90-180	3.90	N.A.	0.50
110-180	0.00	N.A.	0.00
0-180	779.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.61
10-20	73.38
20-30	111.50
30-40	134.70
40-50	139.69
50-60	125.52
60-70	93.72
70-80	52.97
80-90	18.98
90-100	3.67
100-110	0.23
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	12.1	13.7	12.5	14.1	14.4	12.2	13.8	12.6	14.2	14.5
	3H	13.7	15.1	14.1	15.5	15.9	14.0	15.4	14.4	15.8	16.2
	4H	14.1	15.5	14.6	15.9	16.3	14.7	16.1	15.1	16.4	16.8
	6H	14.4	15.7	14.8	16.0	16.5	15.3	16.6	15.8	17.0	17.4
	8H	14.4	15.6	14.9	16.1	16.5	15.6	16.8	16.1	17.2	17.7
	12H	14.4	15.6	14.9	16.0	16.4	15.9	17.0	16.3	17.4	17.9

UGR Viewed Endwise

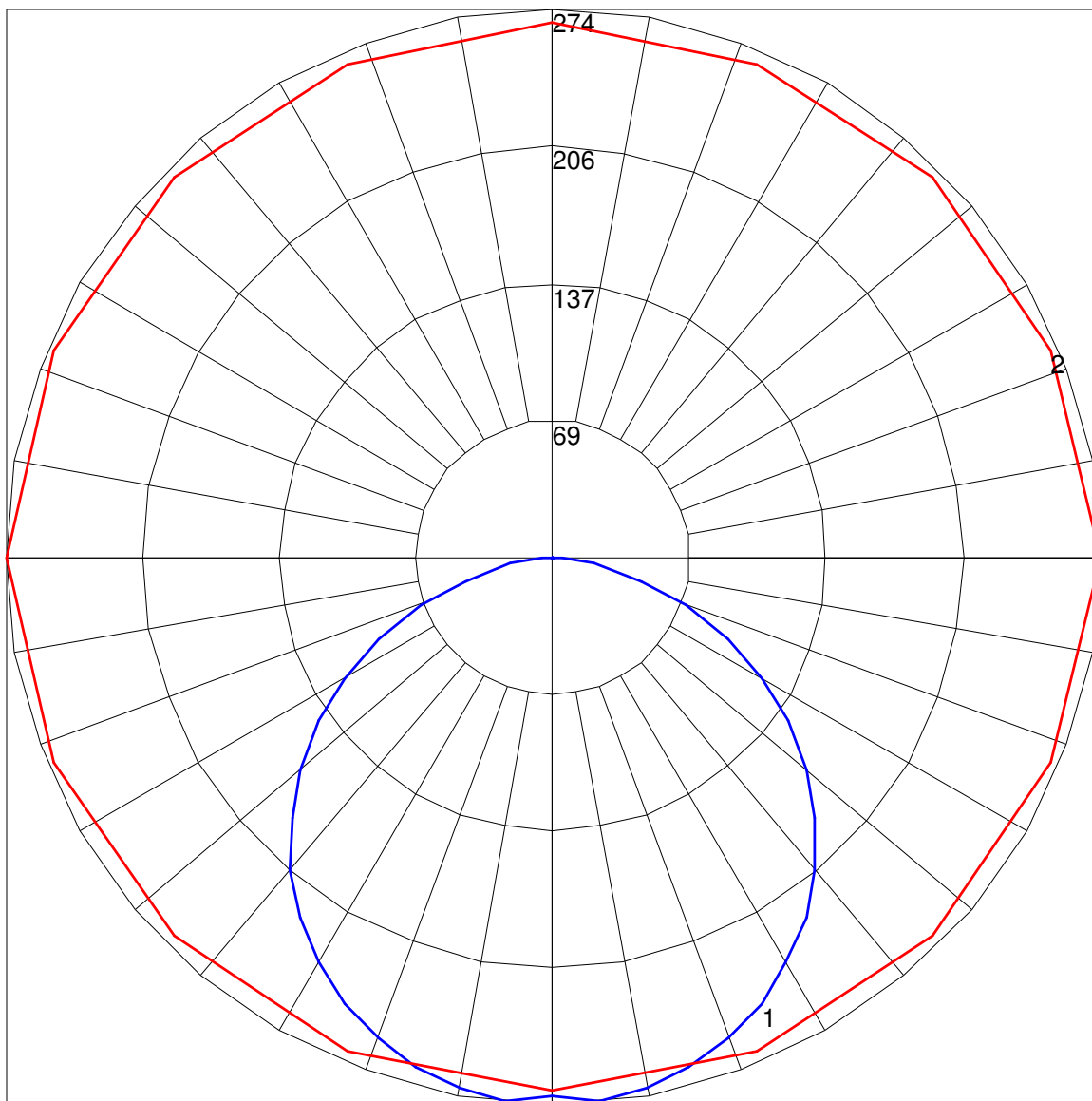
4H	2H	12.7	14.1	13.1	14.4	14.8	12.8	14.1	13.2	14.5	14.9
	3H	14.4	15.6	14.9	16.0	16.4	14.7	15.9	15.2	16.3	16.7
	4H	15.0	16.1	15.5	16.5	17.0	15.6	16.6	16.0	17.1	17.5
	6H	15.4	16.3	15.8	16.7	17.2	16.4	17.3	16.8	17.7	18.2
	8H	15.4	16.3	15.9	16.7	17.2	16.7	17.6	17.2	18.0	18.5
	12H	15.5	16.2	15.9	16.7	17.2	17.1	17.8	17.6	18.3	18.8
8H	4H	15.3	16.2	15.8	16.6	17.1	15.8	16.7	16.3	17.1	17.6
	6H	15.7	16.5	16.2	17.0	17.5	16.7	17.4	17.2	17.9	18.4
	8H	15.9	16.5	16.4	17.0	17.5	17.2	17.8	17.7	18.3	18.8
	12H	15.9	16.5	16.4	17.0	17.6	17.6	18.2	18.2	18.7	19.3
12H	4H	15.4	16.1	15.9	16.6	17.1	15.8	16.6	16.3	17.1	17.6
	6H	15.8	16.5	16.4	16.9	17.5	16.8	17.4	17.3	17.9	18.4
	8H	16.0	16.5	16.5	17.0	17.6	17.3	17.8	17.8	18.3	18.9

Maximum UGR = 19.3

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POLAR GRAPH



Maximum Candela = 274.295 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.)