



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-P53-8TW-CPC-POE 4000K_.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] 4' SURFACE MNT LUMINAIRE

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

[LUMCAT] AVX-4-P53-8TW-CPC-PoE 4000k

[LAMPCAT]HLM 80 CRI, TUNABLE WHITE

[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	5326
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	50
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)	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	5483	7865	9705
55	4829	7497	9376
65	3963	6906	8513
75	2126	5724	7269
85	494	4319	6083

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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	1613.678	1613.678	1613.678	1613.678	1613.678
5	1617.984	1609.910	1614.216	1626.058	1629.288
10	1574.924	1584.613	1620.137	1655.124	1670.733
15	1507.643	1542.629	1621.214	1678.807	1705.181
20	1415.063	1474.271	1601.837	1701.413	1735.861
25	1316.025	1394.072	1579.768	1715.946	1771.924
30	1201.378	1295.572	1534.017	1724.558	1798.837
35	1077.580	1193.842	1468.350	1703.028	1770.309
40	953.244	1058.203	1385.998	1642.206	1709.487
45	832.137	922.025	1277.809	1552.318	1606.143
50	709.416	785.309	1155.088	1427.443	1468.889
55	598.536	652.361	1022.140	1271.888	1311.181
60	487.118	529.640	879.503	1118.487	1133.020
65	366.011	409.071	732.560	911.260	936.019
70	242.213	298.191	570.547	725.025	751.937
75	123.260	186.773	415.530	540.943	557.629
80	46.290	98.500	273.432	366.549	390.232
85	10.765	33.910	159.322	230.372	250.287
90	0.000	8.074	73.202	123.260	137.792
95	0.000	0.000	21.530	53.287	62.975
100	0.000	0.000	2.691	13.456	17.762
105	0.000	0.000	0.000	2.691	3.768
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	610.06	N.A.	11.50
0-30	1328.85	N.A.	24.90
0-40	2232.3	N.A.	41.90
0-60	4062.15	N.A.	76.30
0-80	5129.67	N.A.	96.30
0-90	5288.95	N.A.	99.30
10-90	5134.44	N.A.	96.40
20-40	1622.25	N.A.	30.50
20-50	2579.43	N.A.	48.40
40-70	2500.54	N.A.	46.90
60-80	1067.53	N.A.	20.00
70-80	396.83	N.A.	7.50
80-90	159.28	N.A.	3.00
90-110	37.19	N.A.	0.70
90-120	37.19	N.A.	0.70
90-130	37.19	N.A.	0.70
90-150	37.19	N.A.	0.70
90-180	37.19	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	5326.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.51
10-20	455.54
20-30	718.79
30-40	903.45
40-50	957.19
50-60	872.66
60-70	670.70
70-80	396.83
80-90	159.28
90-100	34.92
100-110	2.28
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	253	253	253	253	247	247	247	247	236	236	236	225	225	225	216	216	216	211
1	230	219	209	201	224	214	205	197	204	197	191	196	190	184	188	183	179	174
2	208	190	175	162	202	186	172	160	178	166	156	170	161	152	164	156	148	144
3	189	166	148	134	184	162	146	132	156	141	130	150	137	127	144	134	125	120
4	173	146	127	112	168	144	126	112	138	122	110	133	119	108	128	116	107	102
5	159	130	111	96	154	128	109	96	123	107	94	119	104	93	115	102	92	87
6	146	117	98	84	142	115	97	83	111	95	82	107	93	81	104	91	81	76
7	135	106	87	73	132	104	86	73	101	84	72	97	83	72	94	81	71	67
8	126	96	78	65	122	95	77	65	92	76	64	89	75	64	86	73	63	59
9	117	88	71	58	114	87	70	58	84	69	58	82	68	57	80	67	57	53
10	110	81	64	53	107	80	64	53	78	63	52	76	62	52	74	61	52	48

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UGR TABLE - CORRECTED

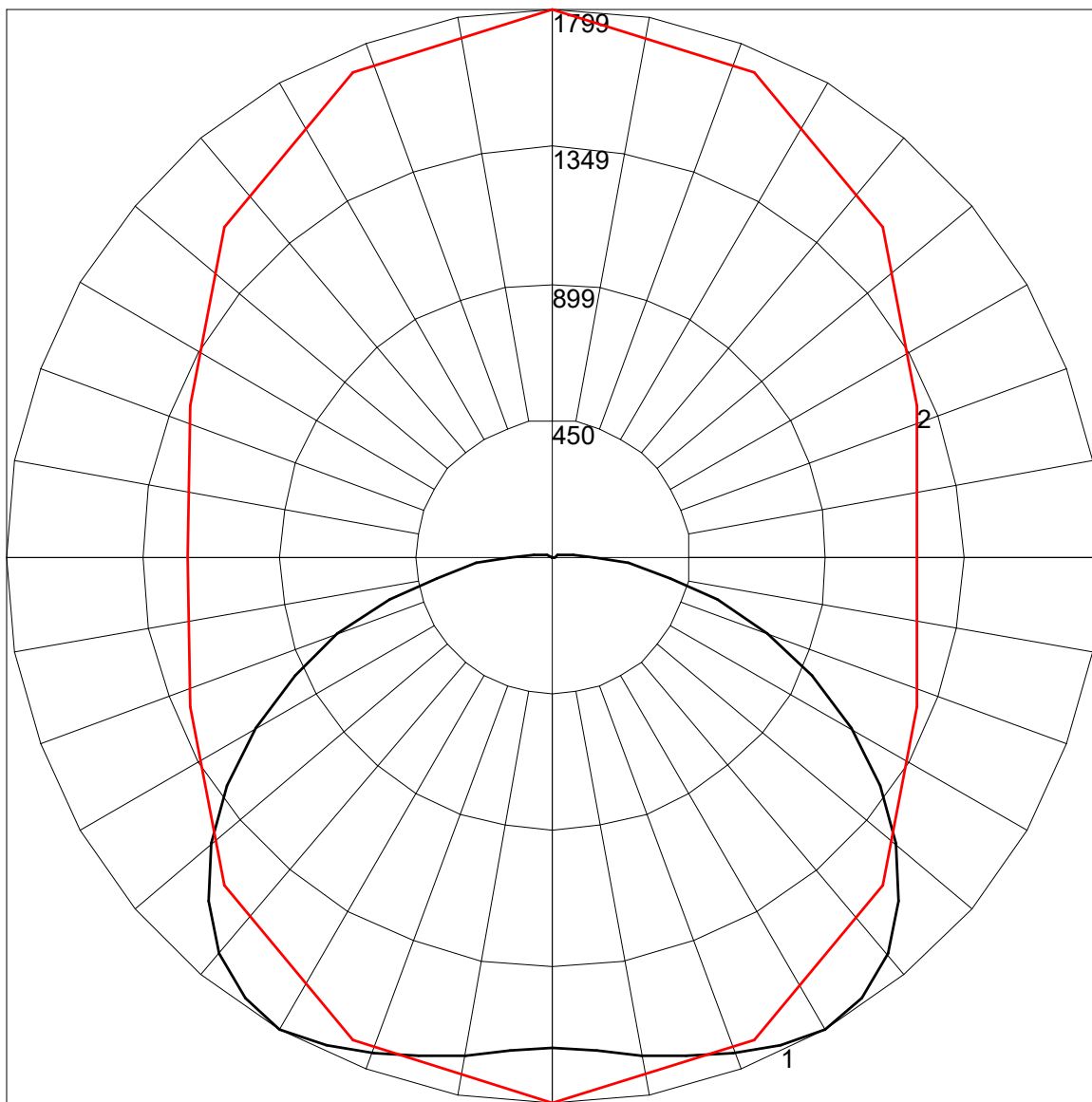
Reflectances

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	13.2	14.8	13.5	15.2	15.5	18.5	20.1	18.9	20.5	20.8
	3H	14.4	15.9	14.8	16.3	16.6	20.5	22.0	20.9	22.3	22.7
	4H	14.7	16.1	15.1	16.5	16.9	21.3	22.7	21.7	23.1	23.4
	6H	14.8	16.1	15.2	16.5	16.9	22.0	23.3	22.4	23.7	24.1
	8H	14.8	16.0	15.2	16.4	16.9	22.3	23.5	22.7	23.9	24.3
	12H	14.8	16.0	15.2	16.4	16.8	22.6	23.8	23.0	24.2	24.6
4H	2H	14.9	16.4	15.4	16.7	17.1	18.8	20.2	19.2	20.6	21.0
	3H	16.3	17.5	16.7	17.9	18.3	21.1	22.2	21.5	22.7	23.1
	4H	16.6	17.7	17.0	18.1	18.6	22.0	23.1	22.5	23.6	24.0
	6H	16.7	17.7	17.2	18.1	18.6	22.9	23.9	23.4	24.3	24.8
	8H	16.7	17.6	17.2	18.1	18.6	23.3	24.2	23.8	24.6	25.1
	12H	16.7	17.5	17.2	18.0	18.5	23.7	24.5	24.2	25.0	25.5
8H	4H	17.6	18.5	18.1	18.9	19.4	22.2	23.1	22.7	23.5	24.0
	6H	17.8	18.6	18.4	19.1	19.6	23.2	23.9	23.7	24.4	24.9
	8H	17.9	18.5	18.4	19.1	19.6	23.7	24.4	24.2	24.9	25.4
	12H	17.9	18.5	18.4	19.0	19.6	24.2	24.8	24.7	25.3	25.9
12H	4H	17.8	18.6	18.3	19.1	19.6	22.2	23.0	22.7	23.5	24.0
	6H	18.2	18.8	18.7	19.3	19.9	23.2	23.9	23.7	24.4	24.9
	8H	18.3	18.9	18.8	19.4	20.0	23.8	24.4	24.3	24.9	25.4

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 1798.837 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.)