



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-4-P53-835-CPC-POE_.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-P53-835-CPC-PoE
 [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	5319
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	44
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	5476	7855	9693
55	4823	7487	9364
65	3958	6897	8502
75	2124	5717	7259
85	493	4313	6075

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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	1611.557	1611.557	1611.557	1611.557	1611.557
5	1615.858	1607.795	1612.095	1623.921	1627.146
10	1572.854	1582.530	1618.008	1652.948	1668.537
15	1505.661	1540.602	1619.083	1676.600	1702.940
20	1413.204	1472.334	1599.732	1699.177	1733.580
25	1314.296	1392.239	1577.692	1713.691	1769.595
30	1199.799	1293.869	1532.001	1722.292	1796.473
35	1076.163	1192.273	1466.421	1700.790	1767.983
40	951.991	1056.812	1384.176	1640.047	1707.240
45	831.043	920.813	1276.130	1550.277	1604.032
50	708.483	784.277	1153.570	1425.567	1466.958
55	597.749	651.504	1020.796	1270.217	1309.458
60	486.477	528.943	878.347	1117.017	1131.531
65	365.530	408.534	731.598	910.062	934.789
70	241.895	297.799	569.797	724.072	750.949
75	123.098	186.528	414.984	540.232	556.896
80	46.229	98.371	273.072	366.068	389.720
85	10.751	33.865	159.113	230.069	249.958
90	0.000	8.063	73.106	123.098	137.611
95	0.000	0.000	21.502	53.217	62.893
100	0.000	0.000	2.688	13.439	17.739
105	0.000	0.000	0.000	2.688	3.763
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	609.25	N.A.	11.50
0-30	1327.1	N.A.	24.90
0-40	2229.37	N.A.	41.90
0-60	4056.81	N.A.	76.30
0-80	5122.93	N.A.	96.30
0-90	5282.00	N.A.	99.30
10-90	5127.69	N.A.	96.40
20-40	1620.12	N.A.	30.50
20-50	2576.04	N.A.	48.40
40-70	2497.25	N.A.	46.90
60-80	1066.12	N.A.	20.00
70-80	396.31	N.A.	7.50
80-90	159.07	N.A.	3.00
90-110	37.15	N.A.	0.70
90-120	37.15	N.A.	0.70
90-130	37.15	N.A.	0.70
90-150	37.15	N.A.	0.70
90-180	37.15	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	5319.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.31
10-20	454.94
20-30	717.85
30-40	902.27
40-50	955.93
50-60	871.51
60-70	669.82
70-80	396.31
80-90	159.07
90-100	34.87
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	251	251	251	251	245	245	245	245	234	234	234	224	224	224	214	214	214	210
1	228	217	208	199	222	212	204	196	203	196	189	194	189	183	186	182	177	173
2	207	188	173	161	201	184	170	159	176	165	155	169	159	151	163	154	147	143
3	188	165	147	133	182	161	145	131	155	140	129	149	136	126	143	133	124	119
4	172	145	126	112	167	142	125	111	137	121	109	132	118	107	127	115	106	101
5	157	130	110	96	153	127	109	95	122	106	94	118	104	93	114	101	91	87
6	145	116	97	83	141	114	96	83	110	94	82	106	92	81	103	90	80	75
7	134	105	86	73	131	103	85	73	100	84	72	97	82	71	94	81	71	66
8	125	96	77	65	121	94	77	65	91	75	64	88	74	63	86	73	63	59
9	117	88	70	58	113	86	69	58	84	68	57	81	67	57	79	66	57	53
10	109	81	64	52	106	80	63	52	77	62	52	75	61	52	73	60	51	48

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UGR TABLE - CORRECTED

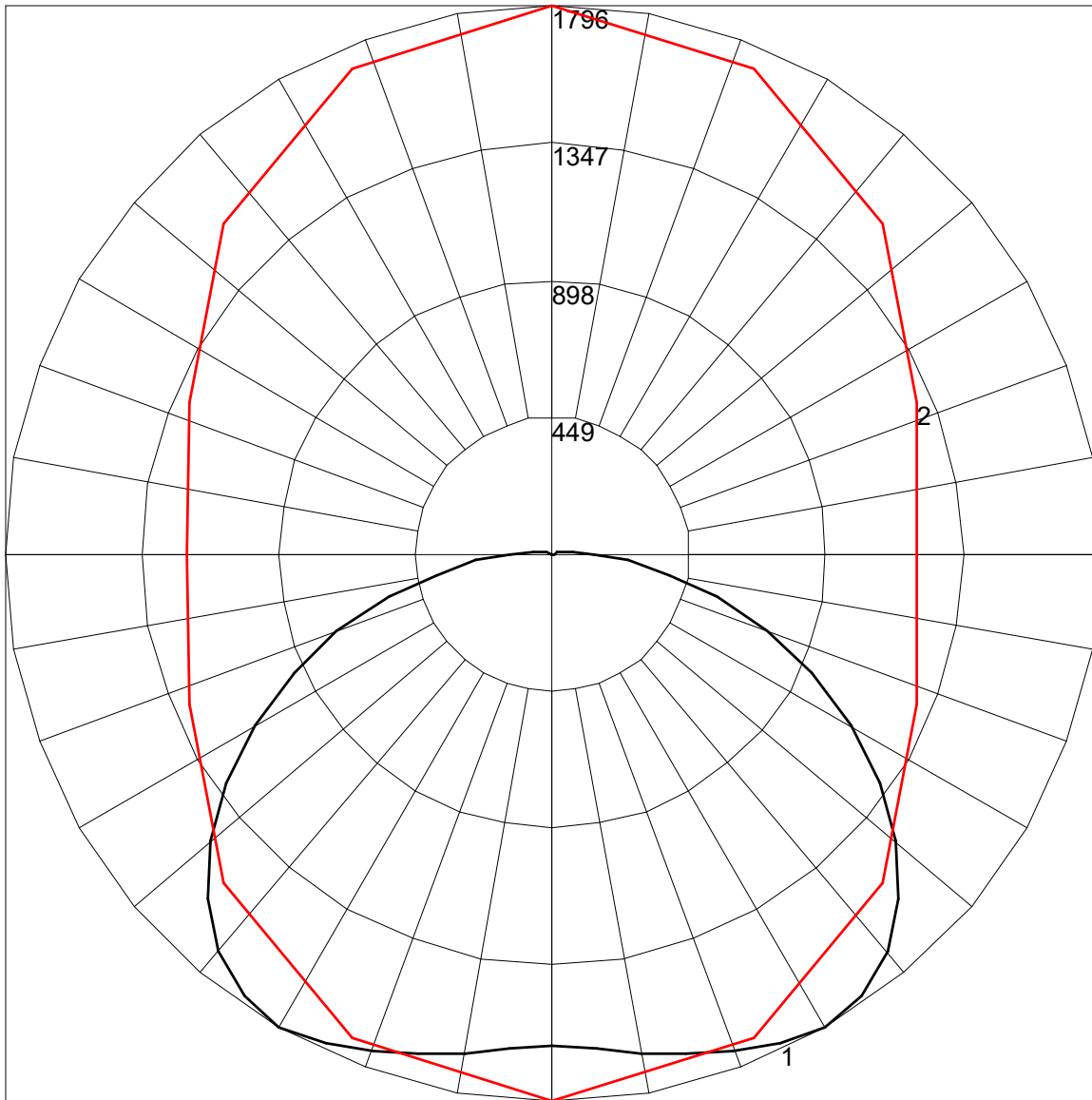
Reflectances

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 = 1796.473 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.)