



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-8-L60-8TW-CPC-DIM-UNV_.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] 8' SURFACE MNT LUMINAIRE

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

[LUMCAT] AVX-8-L60-8TW-CPC-DIM-UNV

[_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	6085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	57
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)	7.90 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	3116	4457	5471
55	2754	4257	5286
65	2273	3934	4799
75	1234	3280	4098
85	302	2518	3429

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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	1843.641	1843.641	1843.641	1843.641	1843.641
5	1848.561	1839.336	1844.256	1857.785	1861.475
10	1799.364	1810.433	1851.020	1890.993	1908.826
15	1722.494	1762.467	1852.250	1918.051	1948.184
20	1616.722	1684.367	1830.112	1943.879	1983.236
25	1503.570	1592.739	1804.899	1960.483	2024.438
30	1372.584	1480.201	1752.627	1970.322	2055.186
35	1231.144	1363.975	1677.603	1945.724	2022.593
40	1089.089	1209.005	1583.514	1876.234	1953.103
45	950.723	1053.421	1459.908	1773.536	1835.032
50	810.513	897.222	1319.698	1630.866	1678.218
55	683.832	745.328	1167.803	1453.143	1498.035
60	556.536	605.118	1004.840	1277.881	1294.484
65	418.171	467.367	836.956	1041.122	1069.410
70	276.731	340.686	651.854	828.347	859.095
75	140.825	213.390	474.747	618.032	637.095
80	52.886	112.537	312.398	418.786	445.844
85	12.299	38.742	182.027	263.202	285.955
90	0.000	9.224	83.634	140.825	157.429
95	0.000	0.000	24.598	60.881	71.950
100	0.000	0.000	3.075	15.374	20.294
105	0.000	0.000	0.000	3.075	4.305
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	696.99	N.A.	11.50
0-30	1518.22	N.A.	24.90
0-40	2550.43	N.A.	41.90
0-60	4641.04	N.A.	76.30
0-80	5860.69	N.A.	96.30
0-90	6042.67	N.A.	99.30
10-90	5866.14	N.A.	96.40
20-40	1853.43	N.A.	30.50
20-50	2947.03	N.A.	48.40
40-70	2856.89	N.A.	46.90
60-80	1219.66	N.A.	20.00
70-80	453.38	N.A.	7.50
80-90	181.98	N.A.	3.00
90-110	42.50	N.A.	0.70
90-120	42.50	N.A.	0.70
90-130	42.50	N.A.	0.70
90-150	42.50	N.A.	0.70
90-180	42.50	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	6085.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	176.53
10-20	520.46
20-30	821.23
30-40	1032.2
40-50	1093.59
50-60	997.02
60-70	766.28
70-80	453.38
80-90	181.98
90-100	39.89
100-110	2.60
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	238	238	238	238	232	232	232	232	221	221	221	212	212	212	203	203	203	199
1	216	206	197	188	210	201	193	185	192	185	179	184	178	173	177	172	168	164
2	196	178	164	152	190	174	161	150	167	156	146	160	151	143	154	146	139	135
3	178	156	139	126	173	153	137	124	146	133	122	141	129	120	135	126	117	113
4	162	138	120	106	158	135	118	105	130	115	103	125	112	102	120	109	100	96
5	149	123	104	91	145	120	103	90	116	100	89	112	98	88	108	96	87	82
6	137	110	92	79	133	108	91	78	104	89	77	101	87	76	97	85	76	71
7	127	100	82	69	124	98	81	69	95	79	68	92	78	67	89	76	67	63
8	118	91	73	61	115	89	73	61	86	71	61	84	70	60	81	69	60	56
9	110	83	66	55	107	82	66	55	79	65	54	77	64	54	75	63	54	50
10	103	76	60	50	101	75	60	49	73	59	49	71	58	49	69	57	49	45

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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	13.9	15.5	14.2	15.8	16.2	19.2	20.8	19.6	21.2	21.5
	3H	15.1	16.6	15.5	17.0	17.3	21.2	22.7	21.6	23.0	23.4
	4H	15.4	16.8	15.8	17.2	17.6	22.0	23.4	22.4	23.7	24.1
	6H	15.5	16.8	15.9	17.2	17.6	22.7	24.0	23.1	24.4	24.8
	8H	15.5	16.7	15.9	17.1	17.6	23.0	24.2	23.4	24.6	25.0
	12H	15.5	16.7	15.9	17.1	17.5	23.3	24.5	23.7	24.9	25.3

UGR Viewed Endwise

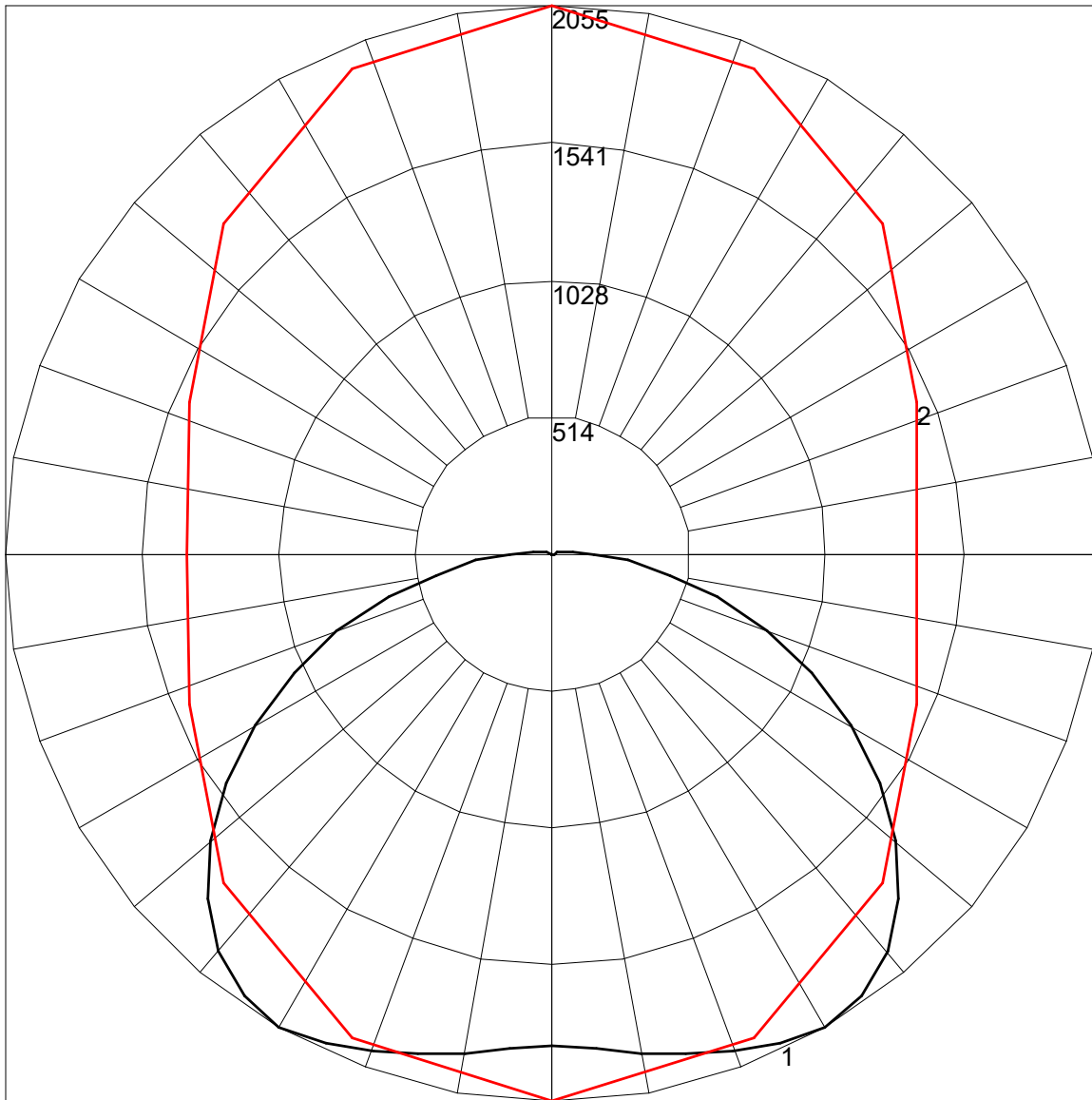
4H	2H	15.6	17.1	16.1	17.4	17.8	19.5	20.9	19.9	21.3	21.7
	3H	17.0	18.2	17.4	18.6	19.0	21.8	22.9	22.2	23.4	23.8
	4H	17.3	18.4	17.7	18.8	19.3	22.7	23.8	23.2	24.3	24.7
	6H	17.4	18.4	17.9	18.8	19.3	23.6	24.6	24.1	25.0	25.5
	8H	17.4	18.3	17.9	18.8	19.3	24.0	24.9	24.5	25.3	25.8
	12H	17.4	18.2	17.9	18.7	19.2	24.4	25.2	24.9	25.7	26.2

8H	4H	18.3	19.2	18.8	19.6	20.1	22.9	23.8	23.4	24.2	24.7
	6H	18.5	19.3	19.1	19.8	20.3	23.9	24.6	24.4	25.1	25.6
	8H	18.6	19.2	19.1	19.8	20.3	24.4	25.1	24.9	25.6	26.1
	12H	18.6	19.2	19.1	19.7	20.3	24.9	25.5	25.4	26.0	26.6

12H	4H	18.5	19.3	19.0	19.8	20.3	22.9	23.7	23.4	24.2	24.7
	6H	18.9	19.5	19.4	20.0	20.6	23.9	24.6	24.4	25.1	25.6
	8H	19.0	19.6	19.5	20.1	20.7	24.5	25.1	25.0	25.6	26.1

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 2055.186 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.)