



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AVX-2-L25-835-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] 2' SURFACE MNT LUMINAIRE

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

[LUMCAT] AVX-2-L25/835-CPC-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCE] 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	2420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	21
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)	1.90 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	5035	7263	9062
55	4404	6894	8754
65	3574	6310	7949
75	1873	5170	6787
85	396	3773	5679

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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	733.215	733.215	733.215	733.215	733.215
5	735.171	731.503	733.459	738.840	740.307
10	715.606	720.008	736.149	752.046	759.139
15	685.035	700.932	736.639	762.807	774.791
20	642.969	669.871	727.834	773.079	788.731
25	597.969	633.431	717.807	779.682	805.118
30	545.876	588.675	697.019	783.596	817.346
35	489.625	542.452	667.181	773.813	804.384
40	433.130	480.820	629.762	746.177	776.748
45	378.102	418.945	580.604	705.334	729.791
50	322.340	356.825	524.843	648.594	667.426
55	271.960	296.416	464.434	577.914	595.767
60	221.334	240.655	399.624	508.212	514.815
65	166.306	185.872	332.857	414.053	425.304
70	110.056	135.491	259.242	329.433	341.661
75	56.006	84.865	188.806	245.791	253.372
80	21.033	44.756	124.240	166.551	177.312
85	4.891	15.408	72.392	104.675	113.724
90	0.000	3.669	33.261	56.006	62.609
95	0.000	0.000	9.783	24.212	28.614
100	0.000	0.000	1.223	6.114	8.071
105	0.000	0.000	0.000	1.223	1.712
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	277.19	N.A.	11.50
0-30	603.80	N.A.	24.90
0-40	1014.3	N.A.	41.90
0-60	1845.74	N.A.	76.30
0-80	2330.79	N.A.	96.30
0-90	2403.17	N.A.	99.30
10-90	2332.96	N.A.	96.40
20-40	737.11	N.A.	30.50
20-50	1172.03	N.A.	48.40
40-70	1136.18	N.A.	46.90
60-80	485.06	N.A.	20.00
70-80	180.31	N.A.	7.50
80-90	72.37	N.A.	3.00
90-110	16.90	N.A.	0.70
90-120	16.90	N.A.	0.70
90-130	16.90	N.A.	0.70
90-150	16.90	N.A.	0.70
90-180	16.90	N.A.	0.70
110-180	0.00	N.A.	0.00
0-180	2420.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.21
10-20	206.99
20-30	326.60
30-40	410.51
40-50	434.92
50-60	396.51
60-70	304.75
70-80	180.31
80-90	72.37
90-100	15.86
100-110	1.04
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	78	78	78	78	76	76	76	76	73	73	73	70	70	70	67	67	67	65
1	71	68	65	62	69	66	63	61	63	61	59	61	59	57	58	57	55	54
2	64	59	54	50	63	57	53	49	55	51	48	53	50	47	51	48	46	44
3	59	51	46	41	57	50	45	41	48	44	40	46	43	39	45	41	39	37
4	53	45	39	35	52	44	39	35	43	38	34	41	37	33	40	36	33	31
5	49	40	34	30	48	40	34	30	38	33	29	37	32	29	35	32	28	27
6	45	36	30	26	44	36	30	26	34	29	25	33	29	25	32	28	25	24
7	42	33	27	23	41	32	27	23	31	26	22	30	26	22	29	25	22	21
8	39	30	24	20	38	29	24	20	28	23	20	28	23	20	27	23	20	18
9	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18	16
10	34	25	20	16	33	25	20	16	24	19	16	23	19	16	23	19	16	15

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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	14.5	16.1	14.8	16.4	16.8	19.8	21.4	20.2	21.8	22.1
	3H	15.7	17.2	16.1	17.6	17.9	21.8	23.3	22.2	23.6	24.0
	4H	16.0	17.4	16.4	17.8	18.2	22.6	24.0	23.0	24.3	24.7
	6H	16.1	17.4	16.5	17.8	18.2	23.3	24.6	23.7	25.0	25.4
	8H	16.1	17.3	16.5	17.7	18.2	23.6	24.8	24.0	25.2	25.6
	12H	16.1	17.3	16.5	17.7	18.1	23.9	25.1	24.3	25.5	25.9

UGR Viewed Endwise

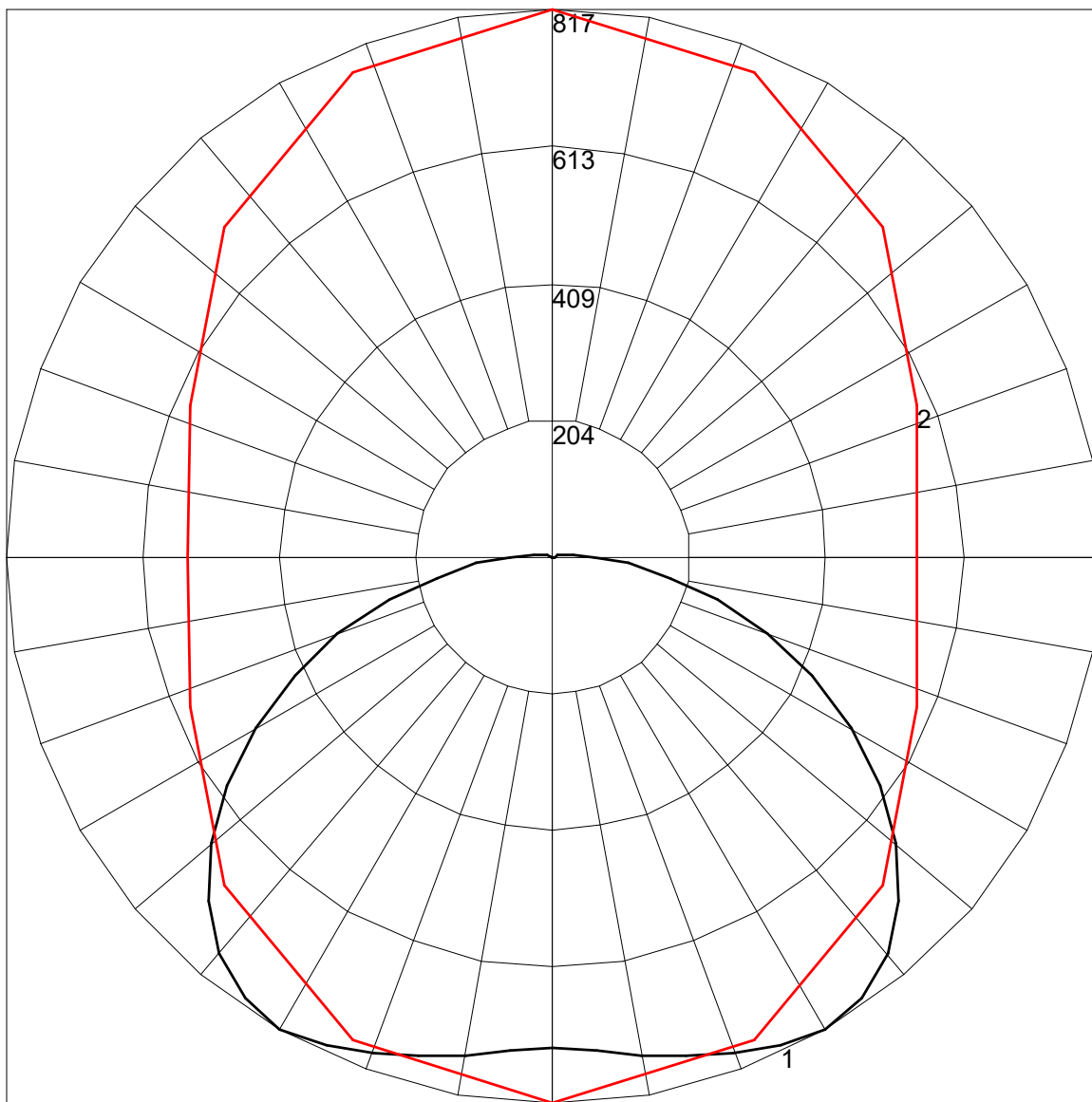
4H	2H	16.2	17.7	16.7	18.0	18.4	20.1	21.5	20.5	21.9	22.3
	3H	17.6	18.8	18.0	19.2	19.6	22.4	23.5	22.8	24.0	24.4
	4H	17.9	19.0	18.3	19.4	19.9	23.3	24.4	23.8	24.8	25.3
	6H	18.0	19.0	18.5	19.4	19.9	24.2	25.2	24.7	25.6	26.1
	8H	18.0	18.9	18.5	19.4	19.9	24.6	25.5	25.1	25.9	26.4
	12H	18.0	18.8	18.5	19.3	19.8	25.0	25.8	25.5	26.3	26.8

8H	4H	18.9	19.8	19.4	20.2	20.7	23.5	24.4	24.0	24.8	25.3
	6H	19.1	19.9	19.7	20.4	20.9	24.5	25.2	25.0	25.7	26.2
	8H	19.2	19.8	19.7	20.4	20.9	25.0	25.7	25.5	26.2	26.7
	12H	19.2	19.8	19.7	20.3	20.9	25.5	26.1	26.0	26.6	27.2

12H	4H	19.1	19.9	19.6	20.4	20.9	23.5	24.3	24.0	24.8	25.3
	6H	19.5	20.1	20.0	20.6	21.2	24.5	25.2	25.0	25.7	26.2
	8H	19.6	20.2	20.1	20.7	21.3	25.1	25.7	25.6	26.2	26.7

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 817.346 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.)