



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HETG-AR24-L76-850-A-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20210.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 18-MAR-2019

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4-28 LED 22"ARRAYS DUAL APERATURE 2x4'RECESSED LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED LENSES

[LUMCAT] HETG-AR24-L76-850-A-DIM-UNV

[LAMPCAT] HLM 80 CRI 5000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Direct

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8354
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	59.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.91 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3916	4191	4361
55	3289	3817	4003
65	2560	3264	2771
75	1821	2120	1362
85	908	553	414

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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	3327.589	3327.589	3327.589	3327.589	3327.589
5	3309.679	3309.679	3295.352	3291.770	3296.546
10	3255.951	3254.757	3248.787	3245.205	3248.787
15	3172.373	3172.373	3183.119	3172.373	3178.343
20	3052.976	3055.364	3085.213	3069.692	3076.856
25	2892.985	2903.730	2941.937	2934.773	2951.489
30	2707.920	2737.769	2756.872	2787.915	2793.885
35	2494.199	2531.212	2545.540	2601.656	2605.238
40	2232.720	2276.897	2315.104	2362.863	2387.936
45	1922.289	1974.823	2057.207	2095.414	2140.785
50	1609.469	1664.391	1788.564	1841.099	1886.470
55	1309.783	1365.899	1519.921	1593.947	1593.947
60	1024.425	1076.959	1259.636	1316.947	1223.817
65	751.006	811.898	957.562	949.205	813.092
70	520.570	575.493	657.876	588.626	471.617
75	327.147	364.160	380.876	302.074	244.763
80	168.349	182.677	165.962	126.561	102.681
85	54.923	45.371	33.431	29.849	25.073
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1209.39	N.A.	14.50
0-30	2557.42	N.A.	30.60
0-40	4153.22	N.A.	49.70
0-60	7051.76	N.A.	84.40
0-80	8291.83	N.A.	99.30
0-90	8353.59	N.A.	100.00
10-90	8040.04	N.A.	96.20
20-40	2943.84	N.A.	35.20
20-50	4518.29	N.A.	54.10
40-70	3770.00	N.A.	45.10
60-80	1240.08	N.A.	14.80
70-80	368.61	N.A.	4.40
80-90	61.76	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	8353.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	313.55
10-20	895.83
20-30	1348.03
30-40	1595.81
40-50	1574.45
50-60	1324.08
60-70	871.46
70-80	368.61
80-90	61.76
90-100	0.00
100-110	0.00
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

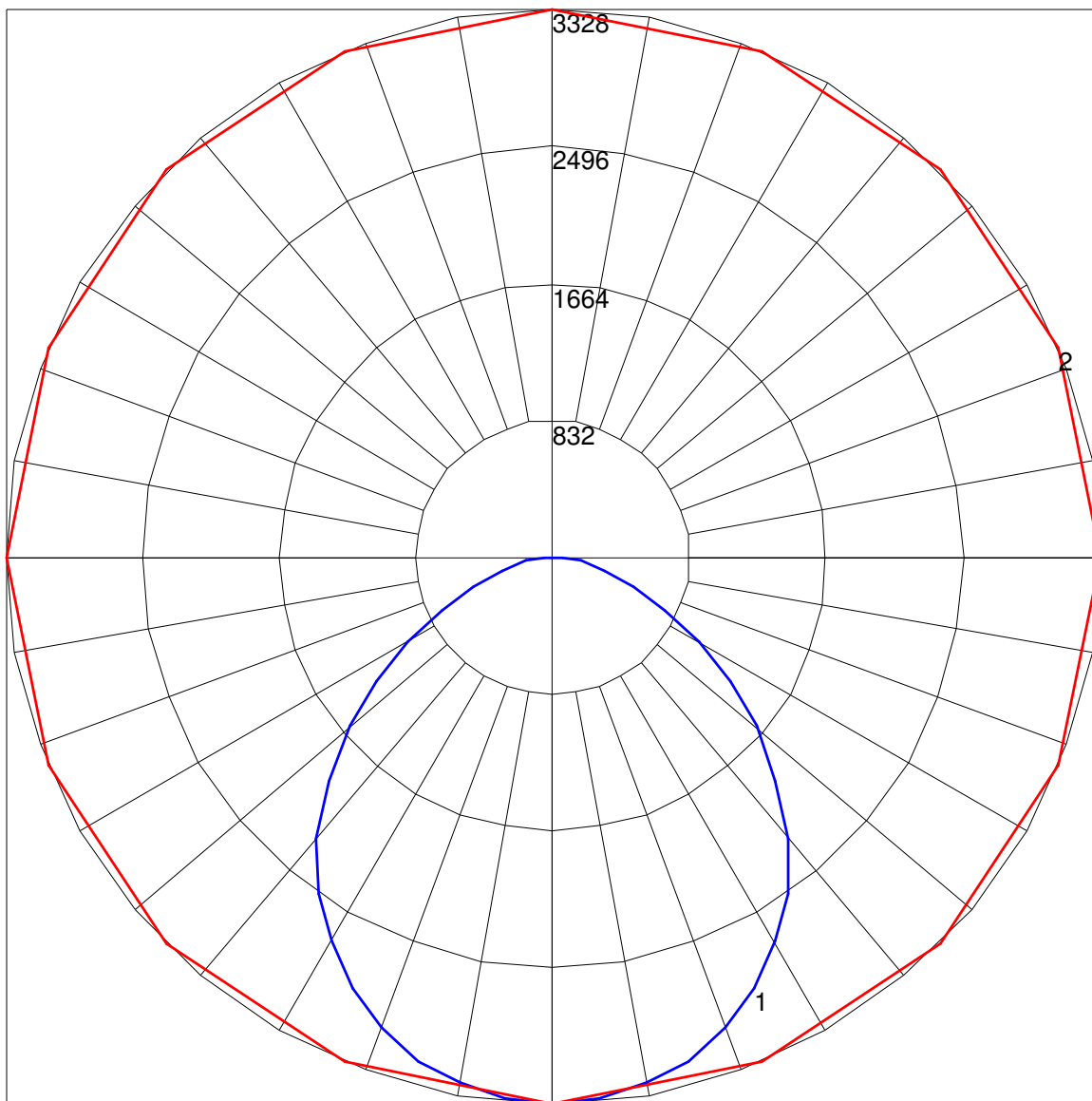
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

POLAR GRAPH



Maximum Candela = 3327.589 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)