



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-AR24-L50-835-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
 [ISSUE DATE] 15-JAN-2018
 [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-L50-835-A-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K 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	5070
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	41.2
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	2377	2544	2647
55	1996	2317	2430
65	1554	1981	1682
75	1105	1287	827
85	551	335	252

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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	2019.739	2019.739	2019.739	2019.739	2019.739
5	2008.868	2008.868	2000.172	1997.998	2000.896
10	1976.257	1975.532	1971.908	1969.734	1971.908
15	1925.528	1925.528	1932.050	1925.528	1929.151
20	1853.058	1854.507	1872.625	1863.203	1867.552
25	1755.948	1762.470	1785.661	1781.312	1791.458
30	1643.619	1661.737	1673.332	1692.174	1695.798
35	1513.898	1536.364	1545.060	1579.121	1581.295
40	1355.189	1382.003	1405.193	1434.181	1449.400
45	1166.767	1198.654	1248.658	1271.848	1299.387
50	976.895	1010.232	1085.600	1117.487	1145.026
55	794.996	829.057	922.543	967.474	967.474
60	621.793	653.679	764.558	799.344	742.817
65	455.836	492.796	581.209	576.136	493.521
70	315.969	349.305	399.310	357.277	286.256
75	198.568	221.033	231.179	183.349	148.563
80	102.183	110.879	100.733	76.818	62.324
85	33.336	27.539	20.292	18.117	15.219
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	734.06	N.A.	14.50
0-30	1552.27	N.A.	30.60
0-40	2520.87	N.A.	49.70
0-60	4280.19	N.A.	84.40
0-80	5032.87	N.A.	99.30
0-90	5070.36	N.A.	100.00
10-90	4880.04	N.A.	96.20
20-40	1786.81	N.A.	35.20
20-50	2742.45	N.A.	54.10
40-70	2288.27	N.A.	45.10
60-80	752.69	N.A.	14.80
70-80	223.74	N.A.	4.40
80-90	37.49	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	5070.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	190.32
10-20	543.74
20-30	818.21
30-40	968.60
40-50	955.64
50-60	803.68
60-70	528.95
70-80	223.74
80-90	37.49
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

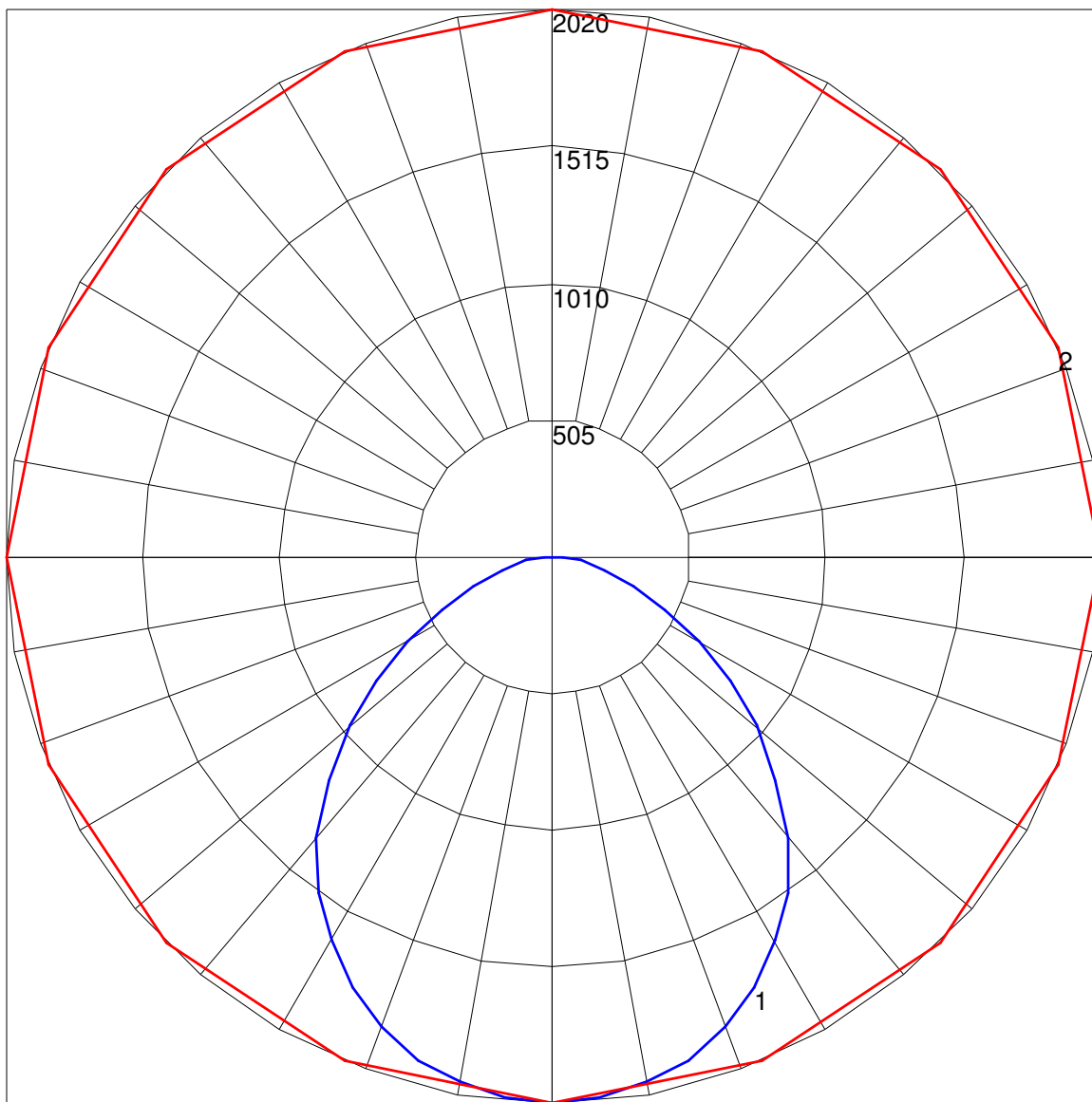
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2019.739 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.)