



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-AR24-L76-835-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] 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-L76-835-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	7882
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	3695	3954	4114
55	3103	3601	3777
65	2415	3079	2615
75	1718	2000	1285
85	856	521	391

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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	3139.558	3139.558	3139.558	3139.558	3139.558
5	3122.661	3122.661	3109.143	3105.763	3110.269
10	3071.968	3070.842	3065.209	3061.830	3065.209
15	2993.113	2993.113	3003.252	2993.113	2998.746
20	2880.463	2882.716	2910.878	2896.234	2902.993
25	2729.512	2739.650	2775.698	2768.939	2784.710
30	2554.904	2583.067	2601.091	2630.380	2636.012
35	2353.261	2388.182	2401.700	2454.646	2458.025
40	2106.557	2148.237	2184.285	2229.345	2253.002
45	1813.667	1863.233	1940.961	1977.009	2019.816
50	1518.523	1570.342	1687.498	1737.064	1779.872
55	1235.772	1288.717	1434.036	1503.879	1503.879
60	966.538	1016.104	1188.459	1242.531	1154.663
65	708.569	766.021	903.454	895.568	767.147
70	491.154	542.973	620.702	555.365	444.968
75	308.661	343.583	359.354	285.005	230.933
80	158.837	172.355	156.584	119.409	96.879
85	51.819	42.807	31.542	28.163	23.657
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1141.05	N.A.	14.50
0-30	2412.91	N.A.	30.60
0-40	3918.54	N.A.	49.70
0-60	6653.29	N.A.	84.40
0-80	7823.29	N.A.	99.30
0-90	7881.56	N.A.	100.00
10-90	7585.73	N.A.	96.20
20-40	2777.49	N.A.	35.20
20-50	4262.98	N.A.	54.10
40-70	3556.97	N.A.	45.10
60-80	1170.00	N.A.	14.80
70-80	347.78	N.A.	4.40
80-90	58.27	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	7881.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	295.84
10-20	845.21
20-30	1271.86
30-40	1505.63
40-50	1485.49
50-60	1249.26
60-70	822.22
70-80	347.78
80-90	58.27
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

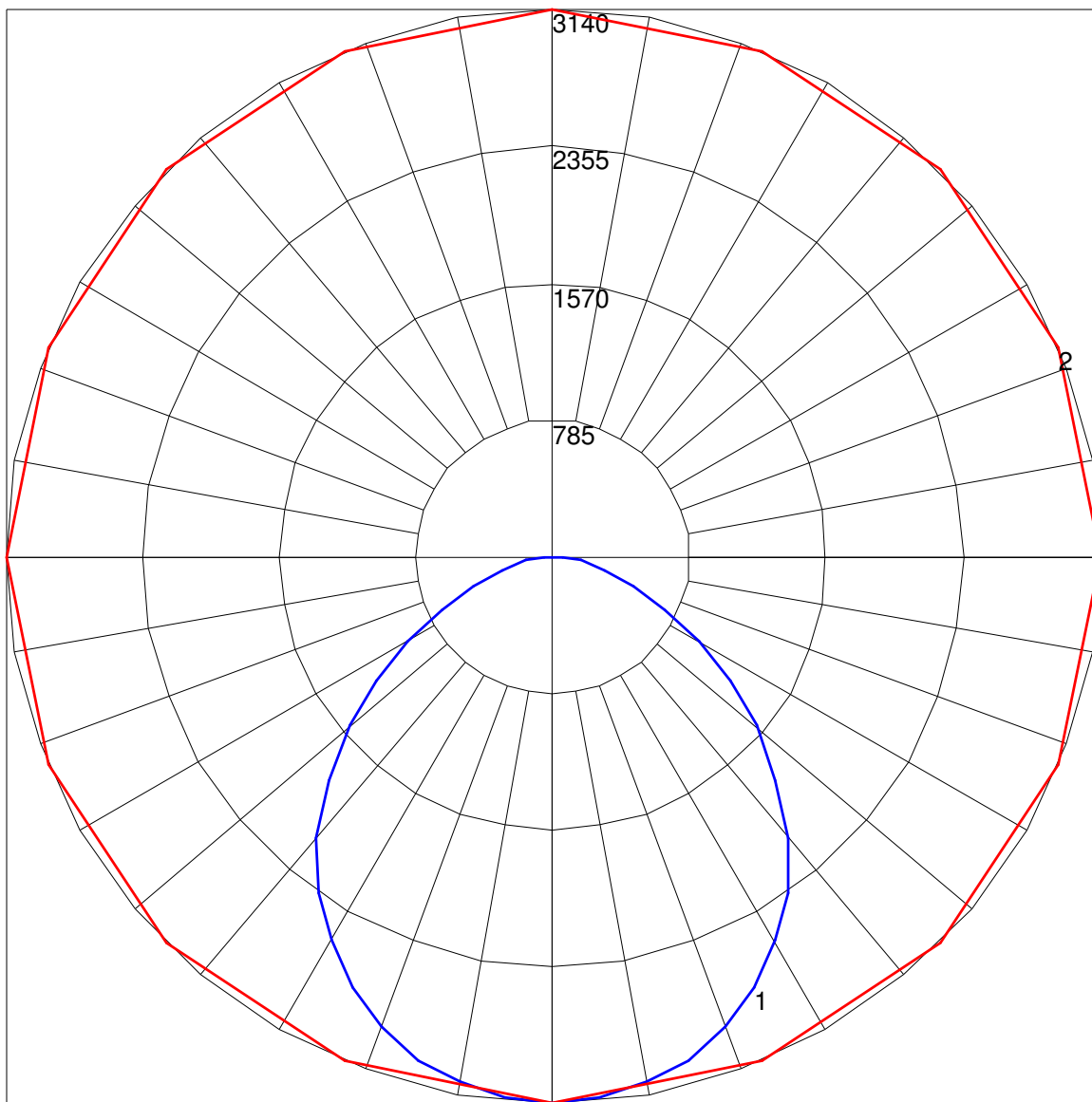
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3139.558 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.)