



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-AR24-L130-840-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-L130-840-A-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT
 [_SEARCH_SOURCE TYPE] 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	13568
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	111.7
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	6360	6806	7083
55	5342	6200	6501
65	4157	5301	4501
75	2957	3443	2212
85	1474	897	673

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : HETG-AR24-L130-840-A-DIM-UNV.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	5404.692	5404.692	5404.692	5404.692	5404.692
5	5375.604	5375.604	5352.333	5346.515	5354.272
10	5288.337	5286.398	5276.702	5270.884	5276.702
15	5152.590	5152.590	5170.043	5152.590	5162.286
20	4958.665	4962.543	5011.024	4985.814	4997.450
25	4698.805	4716.258	4778.314	4766.679	4793.828
30	4398.221	4446.702	4477.730	4528.151	4537.847
35	4051.095	4111.212	4134.483	4225.628	4231.446
40	3626.399	3698.152	3760.208	3837.778	3878.502
45	3122.194	3207.521	3341.329	3403.385	3477.077
50	2614.110	2703.316	2904.998	2990.325	3064.016
55	2127.358	2218.503	2468.666	2588.900	2588.900
60	1663.877	1749.204	2045.910	2138.994	1987.732
65	1219.789	1318.691	1555.279	1541.705	1320.630
70	845.513	934.719	1068.527	956.051	766.004
75	531.355	591.472	618.621	490.630	397.546
80	273.434	296.705	269.556	205.561	166.776
85	89.206	73.692	54.299	48.481	40.724
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-AR24-L130-840-A-DIM-UNV.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1964.3	N.A.	14.50
0-30	4153.77	N.A.	30.60
0-40	6745.69	N.A.	49.70
0-60	11453.51	N.A.	84.40
0-80	13467.65	N.A.	99.30
0-90	13567.96	N.A.	100.00
10-90	13058.69	N.A.	96.20
20-40	4781.4	N.A.	35.20
20-50	7338.64	N.A.	54.10
40-70	6123.25	N.A.	45.10
60-80	2014.14	N.A.	14.80
70-80	598.70	N.A.	4.40
80-90	100.31	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	13567.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	509.28
10-20	1455.02
20-30	2189.48
30-40	2591.92
40-50	2557.24
50-60	2150.58
60-70	1415.43
70-80	598.70
80-90	100.31
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

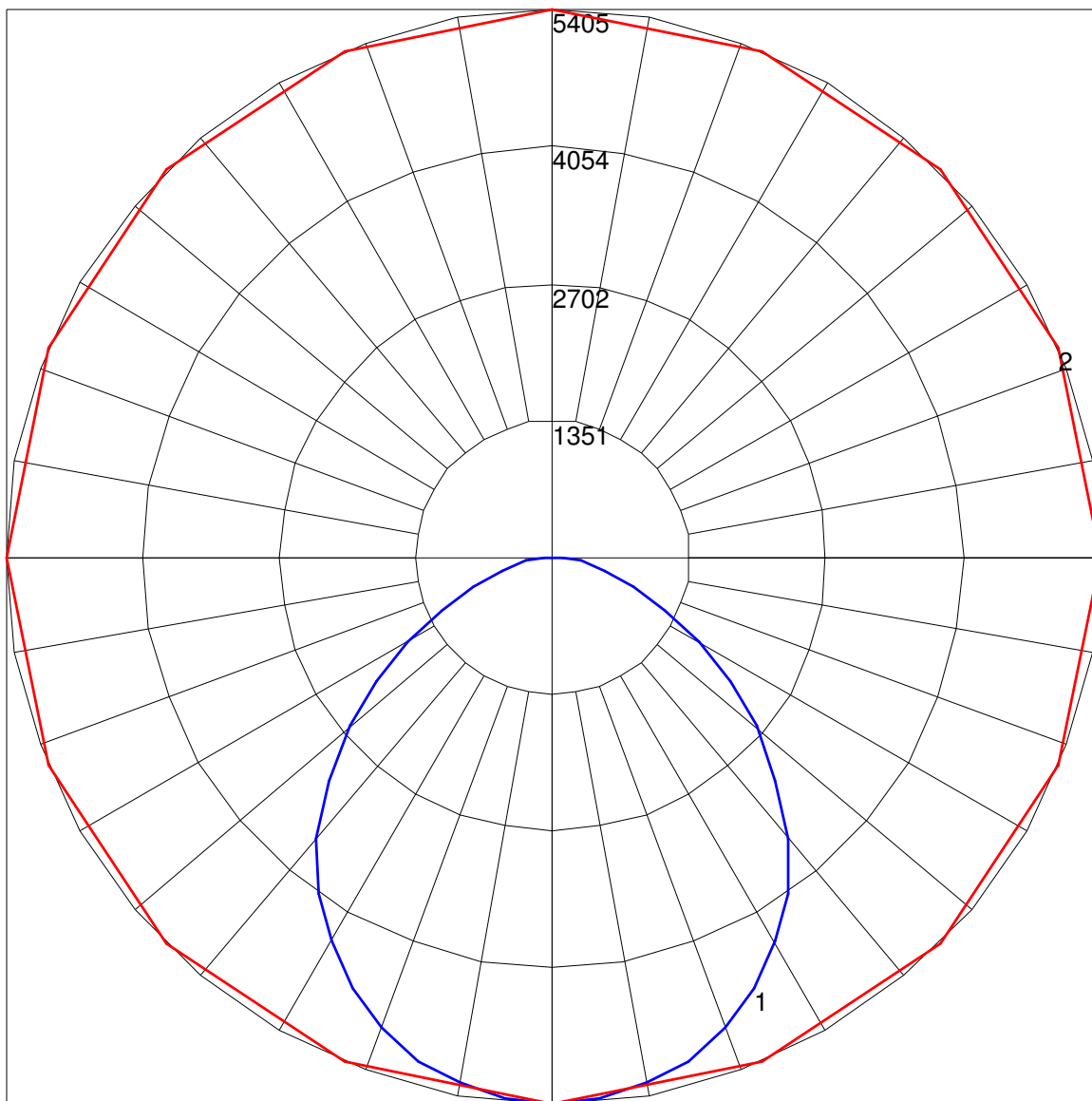
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-AR24-L130-840-A-DIM-UNV.IES

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 = 5404.692 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.)