



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HETLG-S24-L57-835-FA-(L44)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18752.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 02-10-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4-72LED 22"ARRAYS 2x4'RECESSED WHITE REFL LUMINAIRE
 [MORE] ARRAYS ON INTERNAL WHITE REFLS w/DUAL FROSTED ACRYLIC LENS
 [MORE] CLEAR ACRYLIC LENS
 [LUMCAT] HETLG-S24-L57-835-FA-(L44)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4436
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	35.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2439	2581	2671
55	2022	2235	2183
65	1551	1697	1309
75	928	833	601
85	327	265	265

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : HETLG-S24-L57-835-FA-(L44)-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	1909.267	1909.267	1909.267	1909.267	1909.267
5	1887.761	1886.805	1886.805	1886.805	1884.416
10	1872.468	1872.468	1873.424	1873.424	1873.424
15	1783.576	1785.010	1787.877	1789.789	1792.178
20	1738.652	1741.519	1745.821	1752.989	1754.901
25	1601.491	1605.792	1618.218	1630.643	1633.511
30	1498.739	1506.864	1525.502	1539.840	1544.141
35	1340.549	1348.674	1375.437	1395.032	1402.200
40	1222.982	1237.320	1271.730	1295.148	1303.272
45	1071.006	1093.468	1133.613	1163.721	1172.801
50	887.965	914.728	957.740	986.415	986.415
55	720.217	747.936	796.205	798.117	777.566
60	551.513	577.320	617.465	567.762	534.786
65	407.183	433.946	445.416	374.685	343.620
70	271.455	292.006	273.845	214.106	194.511
75	149.109	161.535	133.816	106.097	96.539
80	67.864	71.209	54.482	47.314	43.012
85	17.683	16.249	14.337	14.337	14.337
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETLG-S24-L57-835-FA-(L44)-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	688.31	N.A.	15.50
0-30	1438.77	N.A.	32.40
0-40	2305.61	N.A.	52.00
0-60	3855.03	N.A.	86.90
0-80	4412.26	N.A.	99.50
0-90	4436.09	N.A.	100.00
10-90	4256.22	N.A.	95.90
20-40	1617.3	N.A.	36.50
20-50	2480.48	N.A.	55.90
40-70	1955.85	N.A.	44.10
60-80	557.23	N.A.	12.60
70-80	150.80	N.A.	3.40
80-90	23.83	N.A.	0.50
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	4436.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.87
10-20	508.44
20-30	750.46
30-40	866.84
40-50	863.18
50-60	686.24
60-70	406.43
70-80	150.80
80-90	23.83
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 : HETLG-S24-L57-835-FA-(L44)-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	99	108	104	101	97	100	97	94	96	94	92	92	90	89	87
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETLG-S24-L57-835-FA-(L44)-DIM-UNV_.IES

UGR TABLE - CORRECTED

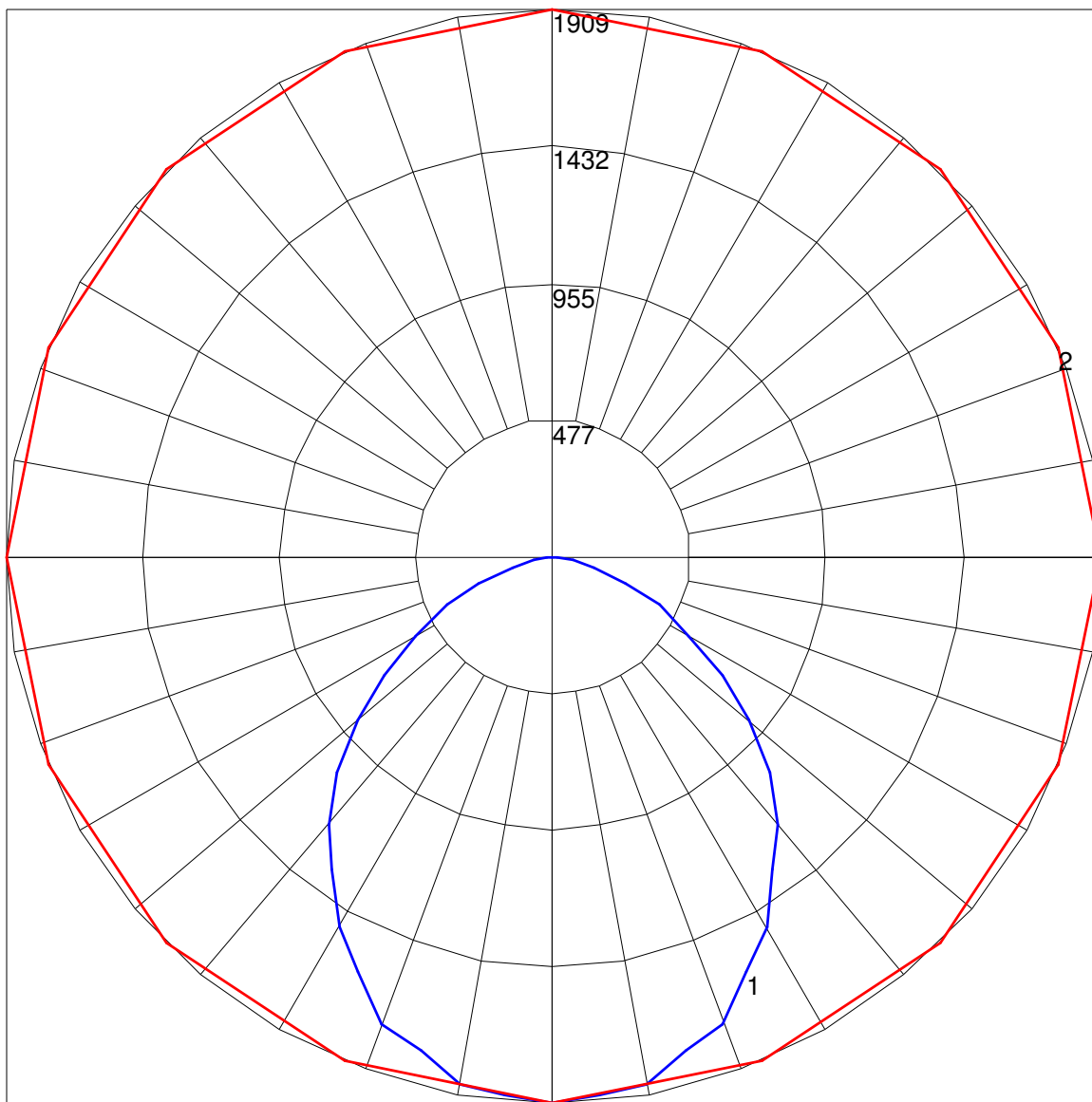
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.3	15.8	14.7	16.1	16.5	14.5	16.0	14.8	16.3	16.6
	3H	15.5	16.9	15.9	17.2	17.6	15.2	16.5	15.6	16.9	17.2
	4H	15.8	17.1	16.2	17.4	17.8	15.3	16.6	15.7	16.9	17.3
	6H	15.9	17.1	16.3	17.5	17.9	15.3	16.5	15.7	16.9	17.3
	8H	15.9	17.1	16.4	17.4	17.8	15.3	16.4	15.7	16.8	17.2
	12H	15.9	17.0	16.4	17.4	17.8	15.3	16.4	15.7	16.7	17.2
4H	2H	14.8	16.1	15.2	16.4	16.8	15.0	16.3	15.4	16.6	17.0
	3H	16.2	17.2	16.6	17.6	18.0	15.8	16.9	16.2	17.3	17.7
	4H	16.5	17.5	17.0	17.9	18.3	15.9	16.9	16.4	17.3	17.8
	6H	16.7	17.6	17.2	18.0	18.5	16.0	16.8	16.5	17.3	17.7
	8H	16.8	17.5	17.2	18.0	18.4	16.0	16.8	16.5	17.2	17.7
	12H	16.8	17.4	17.2	17.9	18.4	16.0	16.7	16.5	17.2	17.6
8H	4H	16.6	17.4	17.1	17.8	18.3	16.1	16.8	16.5	17.3	17.7
	6H	16.8	17.5	17.3	17.9	18.4	16.1	16.8	16.6	17.3	17.7
	8H	16.9	17.4	17.4	17.9	18.4	16.1	16.7	16.6	17.2	17.7
	12H	16.9	17.4	17.4	17.9	18.4	16.2	16.6	16.7	17.1	17.7
12H	4H	16.6	17.3	17.1	17.7	18.2	16.0	16.7	16.5	17.2	17.7
	6H	16.8	17.4	17.3	17.8	18.4	16.1	16.7	16.6	17.2	17.7
	8H	16.9	17.4	17.4	17.9	18.4	16.2	16.7	16.7	17.1	17.7

Maximum UGR = 18.5

POLAR GRAPH



Maximum Candela = 1909.267 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.)