



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HETLG-S22-L28-835-FA-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
 [ISSUE DATE] 19-MAR-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] LED 22"ARRAYS 2x2 RECESSED WHITE REFL LUMINAIRE
 [MORE] ARRAYS ON INTERNAL WHITE REFLS w/DUAL FROSTED ACRYLIC LENS
 [MORE] CLEAR ACRYLIC LENS IN DOOR
 [LUMCAT] HETLG-S22-L28-835-FA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT
 [_SEARCH_APPLICATION] INDOOR
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	25.5
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)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2852	3018	3123
55	2364	2614	2552
65	1814	1984	1531
75	1085	973	702
85	382	310	310

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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	1232.244	1232.244	1232.244	1232.244	1232.244
5	1218.364	1217.747	1217.747	1217.747	1216.205
10	1208.493	1208.493	1209.110	1209.110	1209.110
15	1151.122	1152.048	1153.898	1155.132	1156.674
20	1122.128	1123.979	1126.755	1131.382	1132.616
25	1033.604	1036.380	1044.400	1052.419	1054.270
30	967.288	972.532	984.561	993.815	996.591
35	865.192	870.436	887.709	900.355	904.982
40	789.315	798.568	820.776	835.890	841.134
45	691.229	705.726	731.635	751.067	756.928
50	573.094	590.367	618.127	636.634	636.634
55	464.829	482.719	513.872	515.106	501.842
60	355.947	372.603	398.513	366.434	345.152
65	262.796	280.069	287.472	241.822	221.773
70	175.198	188.461	176.740	138.184	125.538
75	96.235	104.255	86.365	68.475	62.306
80	43.799	45.959	35.163	30.536	27.760
85	11.413	10.487	9.253	9.253	9.253
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	444.24	N.A.	15.50
0-30	928.58	N.A.	32.40
0-40	1488.04	N.A.	52.00
0-60	2488.04	N.A.	86.90
0-80	2847.68	N.A.	99.50
0-90	2863.06	N.A.	100.00
10-90	2746.97	N.A.	95.90
20-40	1043.81	N.A.	36.50
20-50	1600.9	N.A.	55.90
40-70	1262.31	N.A.	44.10
60-80	359.64	N.A.	12.60
70-80	97.33	N.A.	3.40
80-90	15.38	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	2863.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.09
10-20	328.15
20-30	484.35
30-40	559.46
40-50	557.10
50-60	442.90
60-70	262.31
70-80	97.33
80-90	15.38
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

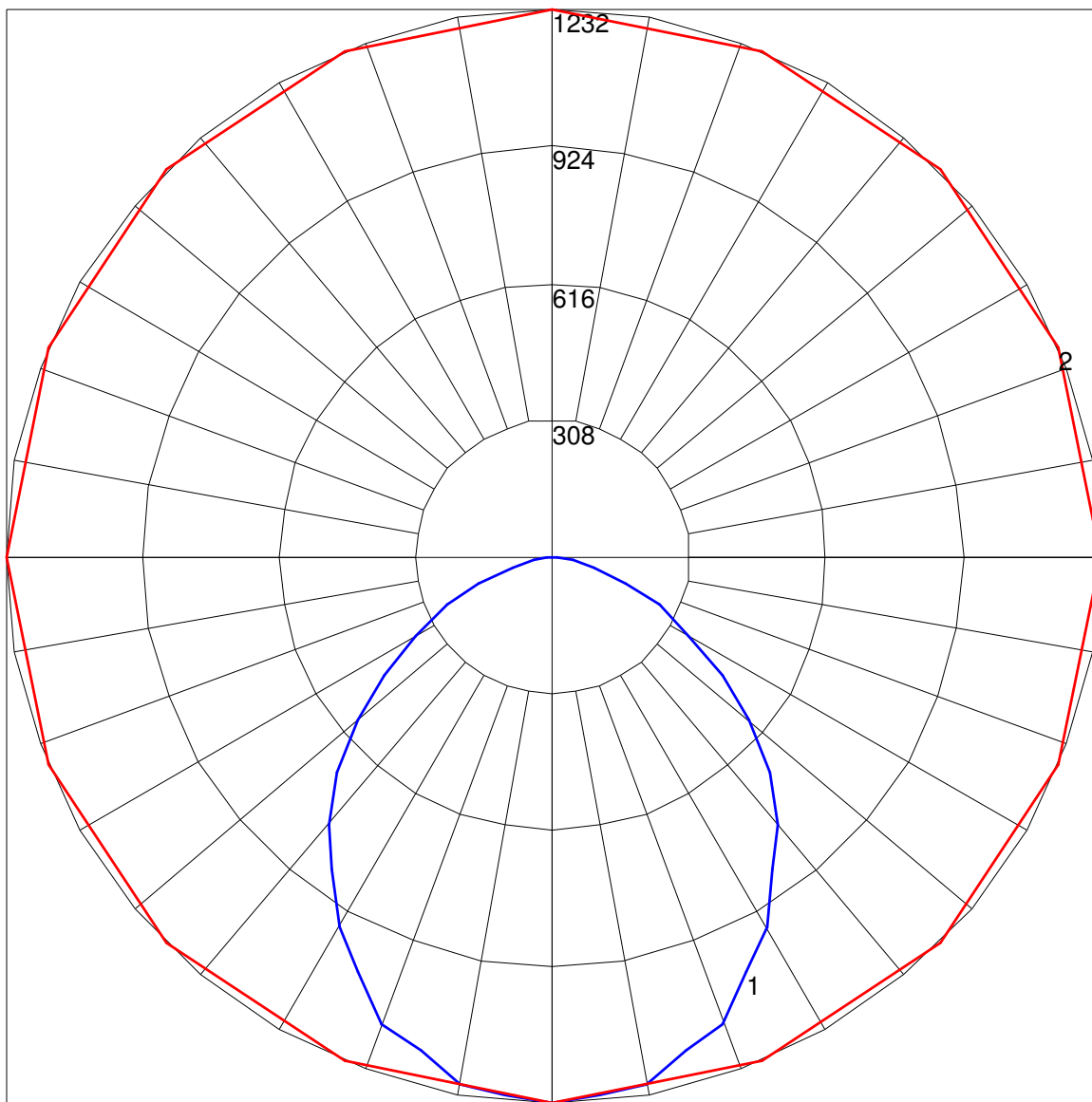
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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

POLAR GRAPH



Maximum Candela = 1232.244 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.)