



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HETLG-S14-L30-835-FA-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18751.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 19-MAR-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-22" LED ARRAYS 1x4'RECESSED WHITE REFL LUMINAIRE
 [MORE] ARRAYS ON INTERNAL WHITE REFLS w/FROSTED ACRYLIC LENS &
 [MORE] CLEAR ACRYLIC LENS IN DOOR
 [LUMCAT] HETLG-S14-L30-835-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	3081
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	27.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4069	4255	4308
55	3335	3549	3143
65	2624	2551	1798
75	1587	1239	899
85	605	504	529

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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	1339.514	1339.514	1339.514	1339.514	1339.514
5	1316.951	1316.357	1316.357	1316.357	1316.357
10	1303.294	1302.701	1303.294	1303.888	1303.888
15	1248.669	1250.450	1252.825	1254.013	1261.138
20	1218.981	1218.981	1223.137	1227.294	1229.075
25	1120.418	1123.386	1130.511	1136.449	1136.449
30	1053.323	1058.073	1068.167	1074.698	1077.073
35	952.978	959.510	972.572	980.885	985.041
40	858.571	867.478	887.071	898.947	901.915
45	777.820	790.289	813.446	826.508	823.540
50	639.475	655.507	677.476	673.913	660.257
55	517.161	533.193	550.412	513.005	487.474
60	394.848	409.098	410.285	350.910	323.003
65	299.847	309.347	291.534	230.971	205.440
70	197.127	202.471	173.377	130.626	117.564
75	111.032	111.032	86.688	66.501	62.938
80	49.876	48.688	36.219	31.469	30.875
85	14.250	12.469	11.875	12.469	12.469
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	481.21	N.A.	15.60
0-30	1005.93	N.A.	32.60
0-40	1615.21	N.A.	52.40
0-60	2693.94	N.A.	87.40
0-80	3063.77	N.A.	99.40
0-90	3081.26	N.A.	100.00
10-90	2955.79	N.A.	95.90
20-40	1134.01	N.A.	36.80
20-50	1744.56	N.A.	56.60
40-70	1348.25	N.A.	43.80
60-80	369.83	N.A.	12.00
70-80	100.31	N.A.	3.30
80-90	17.49	N.A.	0.60
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	3081.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.47
10-20	355.74
20-30	524.73
30-40	609.28
40-50	610.56
50-60	468.17
60-70	269.52
70-80	100.31
80-90	17.49
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

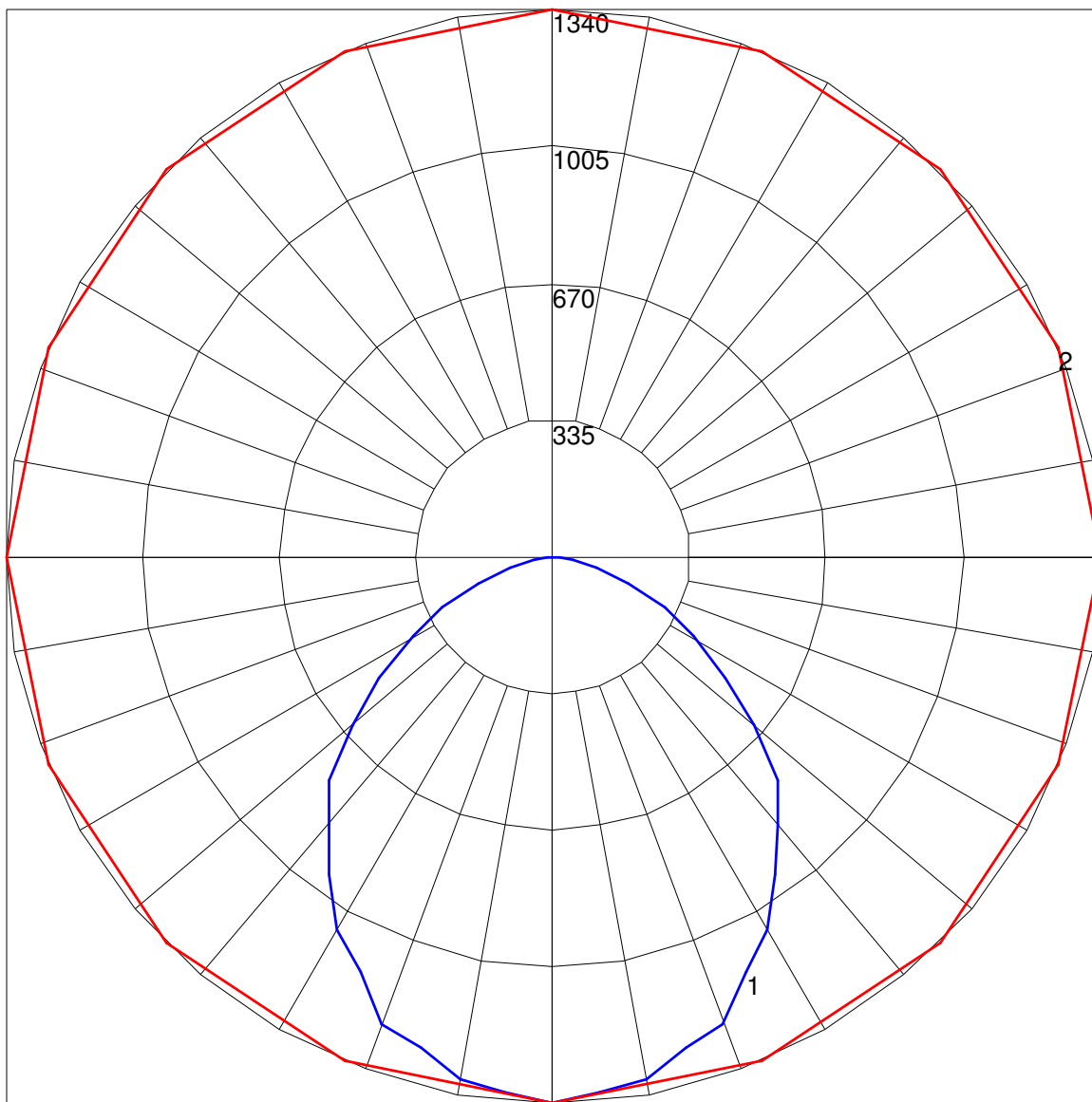
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	40	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 1339.514 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.)