



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HETLG-S22-L46-835-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-L46-835-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	4681
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	39.9
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	4662	4935	5106
55	3865	4273	4173
65	2966	3244	2503
75	1773	1592	1148
85	625	506	506

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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>
<b>0</b>	2014.716	2014.716	2014.716	2014.716	2014.716
<b>5</b>	1992.022	1991.014	1991.014	1991.014	1988.492
<b>10</b>	1975.884	1975.884	1976.893	1976.893	1976.893
<b>15</b>	1882.083	1883.596	1886.622	1888.639	1891.160
<b>20</b>	1834.678	1837.704	1842.242	1849.807	1851.824
<b>25</b>	1689.941	1694.480	1707.592	1720.704	1723.730
<b>30</b>	1581.514	1590.088	1609.756	1624.885	1629.424
<b>35</b>	1414.588	1423.161	1451.402	1472.079	1479.644
<b>40</b>	1290.528	1305.657	1341.967	1366.679	1375.252
<b>45</b>	1130.157	1153.860	1196.222	1227.993	1237.575
<b>50</b>	937.007	965.248	1010.636	1040.895	1040.895
<b>55</b>	759.994	789.244	840.179	842.197	820.511
<b>60</b>	581.973	609.206	651.568	599.120	564.322
<b>65</b>	429.672	457.913	470.016	395.379	362.598
<b>70</b>	286.448	308.133	288.969	225.931	205.254
<b>75</b>	157.345	170.457	141.207	111.957	101.871
<b>80</b>	71.612	75.142	57.491	49.927	45.388
<b>85</b>	18.659	17.147	15.129	15.129	15.129
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	726.33	N.A.	15.50
0-30	1518.23	N.A.	32.40
0-40	2432.95	N.A.	52.00
0-60	4067.95	N.A.	86.90
0-80	4655.95	N.A.	99.50
0-90	4681.1	N.A.	100.00
10-90	4491.29	N.A.	95.90
20-40	1706.62	N.A.	36.50
20-50	2617.48	N.A.	55.90
40-70	2063.88	N.A.	44.10
60-80	588.01	N.A.	12.60
70-80	159.13	N.A.	3.40
80-90	25.14	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	4681.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	189.81
10-20	536.52
20-30	791.91
30-40	914.71
40-50	910.86
50-60	724.15
60-70	428.87
70-80	159.13
80-90	25.14
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

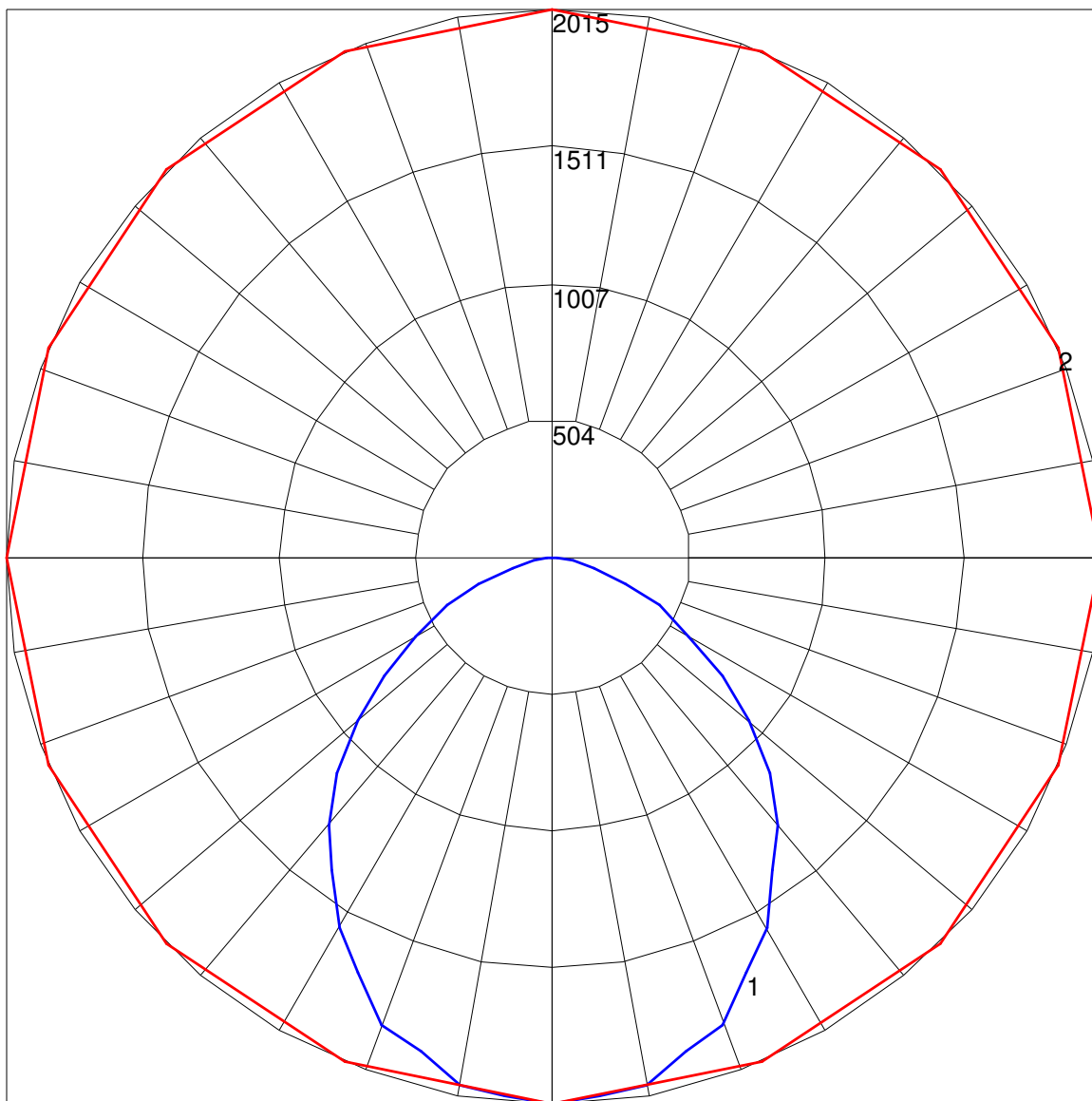
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2014.716 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.)