



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETLG-S24-L57-835-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] 4-72LED 22"ARRAYS 2x4'RECESSED WHITE REFL LUMINAIRE
 [MORE] ARRAYS ON INTERNAL WHITE REFLS w/DUAL FROSTED ACRYLIC LENS
 [MORE] CLEAR ACRYLIC LENS IN DOOR
 [LUMCAT] HETLG-S24-L57-835-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	5765
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	47.2
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	3170	3355	3471
55	2628	2905	2837
65	2016	2206	1701
75	1206	1082	781
85	425	344	344

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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	2481.273	2481.273	2481.273	2481.273	2481.273
5	2453.324	2452.081	2452.081	2452.081	2448.976
10	2433.449	2433.449	2434.691	2434.691	2434.691
15	2317.925	2319.788	2323.515	2325.999	2329.105
20	2259.542	2263.269	2268.859	2278.175	2280.659
25	2081.288	2086.878	2103.026	2119.175	2122.901
30	1947.753	1958.311	1982.534	2001.167	2006.757
35	1742.170	1752.729	1787.510	1812.975	1822.292
40	1589.381	1608.014	1652.733	1683.166	1693.725
45	1391.873	1421.064	1473.236	1512.365	1524.166
50	1153.994	1188.775	1244.674	1281.939	1281.939
55	935.990	972.013	1034.744	1037.228	1010.521
60	716.743	750.282	802.454	737.860	695.005
65	529.173	563.954	578.860	486.938	446.567
70	352.782	379.489	355.887	278.250	252.785
75	193.782	209.930	173.906	137.883	125.461
80	88.195	92.543	70.805	61.488	55.899
85	22.980	21.117	18.633	18.633	18.633
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	894.52	N.A.	15.50
0-30	1869.82	N.A.	32.40
0-40	2996.35	N.A.	52.00
0-60	5009.98	N.A.	86.90
0-80	5734.15	N.A.	99.50
0-90	5765.12	N.A.	100.00
10-90	5531.36	N.A.	95.90
20-40	2101.83	N.A.	36.50
20-50	3223.62	N.A.	55.90
40-70	2541.82	N.A.	44.10
60-80	724.17	N.A.	12.60
70-80	195.98	N.A.	3.40
80-90	30.97	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	5765.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	233.76
10-20	660.76
20-30	975.29
30-40	1126.54
40-50	1121.79
50-60	891.84
60-70	528.19
70-80	195.98
80-90	30.97
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

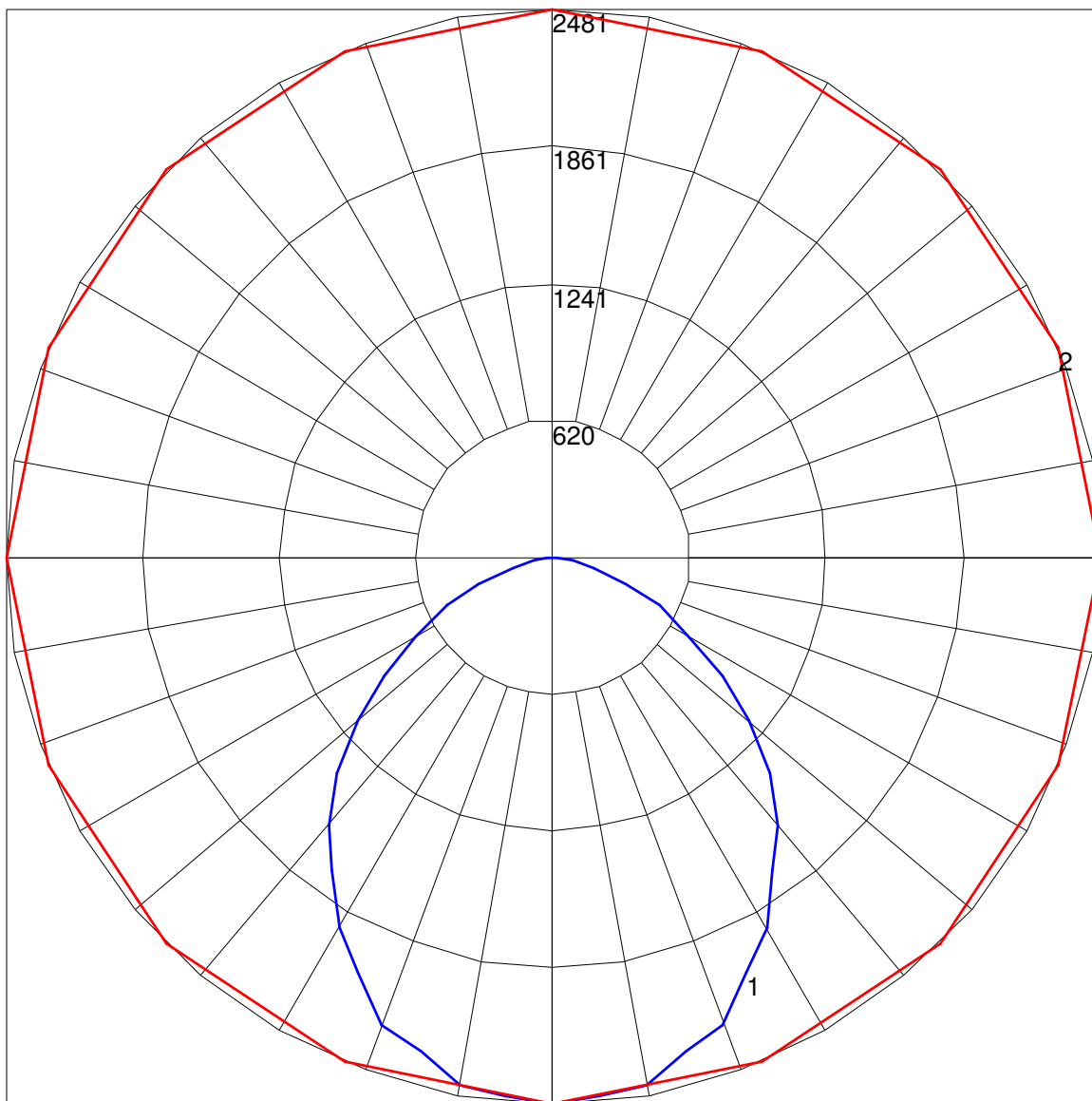
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2481.273 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.)