



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HETLG-S24-L93-835-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-L93-835-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	9412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	74.4
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	5175	5477	5667
55	4290	4743	4632
65	3292	3601	2778
75	1968	1766	1274
85	693	562	562

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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	4050.954	4050.954	4050.954	4050.954	4050.954
5	4005.324	4003.296	4003.296	4003.296	3998.226
10	3972.876	3972.876	3974.904	3974.904	3974.904
15	3784.270	3787.312	3793.397	3797.453	3802.523
20	3688.954	3695.038	3704.164	3719.374	3723.430
25	3397.934	3407.060	3433.424	3459.789	3465.873
30	3179.923	3197.161	3236.707	3267.127	3276.253
35	2844.287	2861.525	2918.309	2959.884	2975.094
40	2594.841	2625.262	2698.270	2747.956	2765.194
45	2272.387	2320.046	2405.222	2469.105	2488.371
50	1884.023	1940.808	2032.068	2092.908	2092.908
55	1528.107	1586.919	1689.334	1693.390	1649.788
60	1170.163	1224.919	1310.096	1204.639	1134.673
65	863.933	920.717	945.054	794.981	729.070
70	575.955	619.558	581.025	454.275	412.700
75	316.370	342.734	283.922	225.109	204.829
80	143.989	151.087	115.597	100.387	91.261
85	37.518	34.476	30.420	30.420	30.420
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1460.41	N.A.	15.50
0-30	3052.69	N.A.	32.40
0-40	4891.88	N.A.	52.00
0-60	8179.35	N.A.	86.90
0-80	9361.64	N.A.	99.50
0-90	9412.2	N.A.	100.00
10-90	9030.55	N.A.	95.90
20-40	3431.47	N.A.	36.50
20-50	5262.91	N.A.	55.90
40-70	4149.8	N.A.	44.10
60-80	1182.29	N.A.	12.60
70-80	319.96	N.A.	3.40
80-90	50.56	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	9412.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	381.65
10-20	1078.76
20-30	1592.28
30-40	1839.19
40-50	1831.44
50-60	1456.03
60-70	862.33
70-80	319.96
80-90	50.56
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

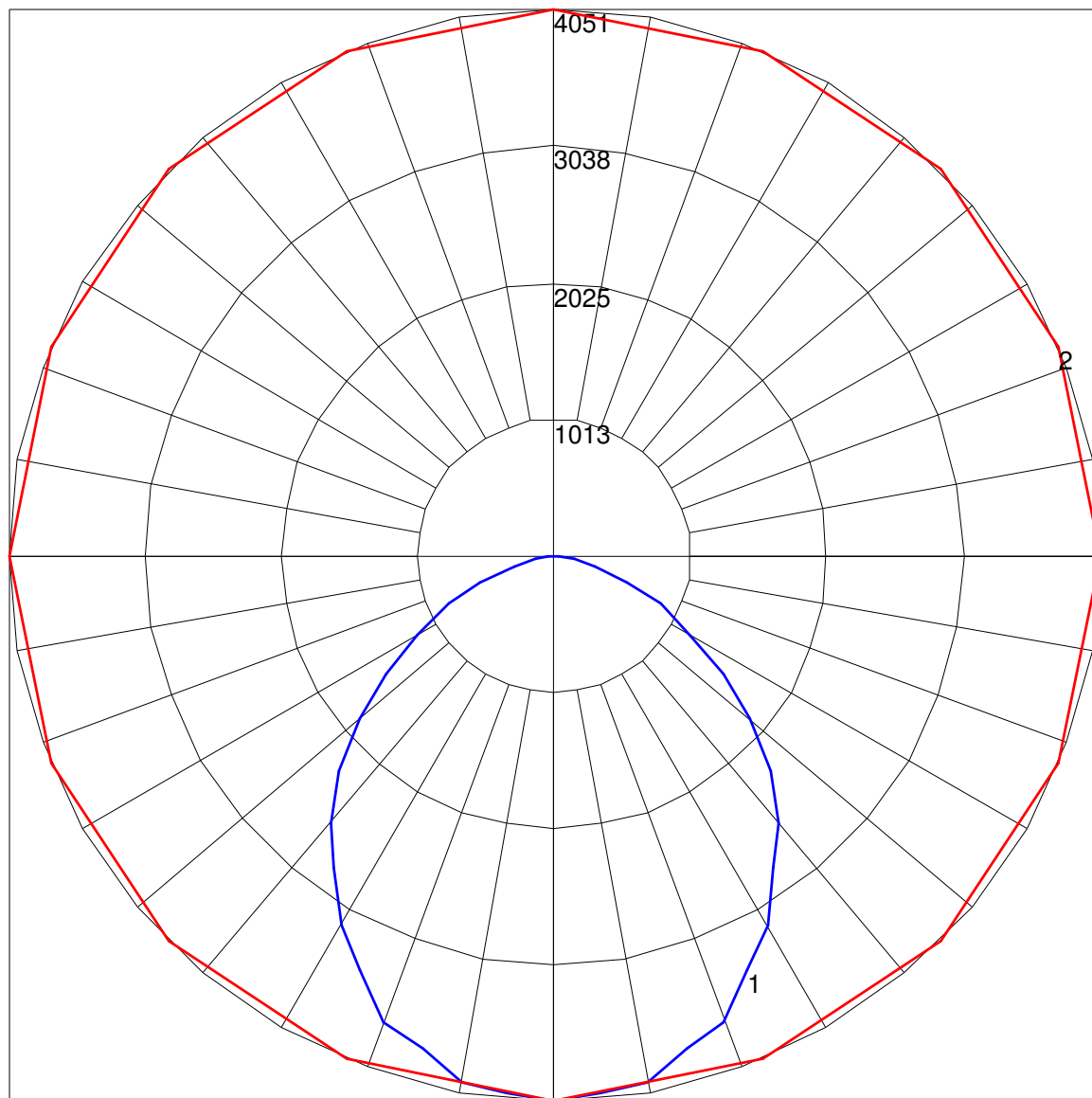
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4050.954 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.)