



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-AR24-L130-850-A-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20210.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 18-MAR-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4-28 LED 22"ARRAYS DUAL APERATURE 2x4'RECESSED LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED LENSES
 [LUMCAT] HETG-AR24-L130-850-A-DIM-UNV
 [LAMPCAT] HLM 80 CRI 5000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Direct
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13963
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	111.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.91 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6545	7005	7289
55	5498	6380	6691
65	4278	5455	4632
75	3043	3543	2277
85	1517	924	693

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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	5562.049	5562.049	5562.049	5562.049	5562.049
5	5532.114	5532.114	5508.165	5502.178	5510.161
10	5442.307	5440.311	5430.332	5424.345	5430.332
15	5302.607	5302.607	5320.568	5302.607	5312.585
20	5103.036	5107.027	5156.920	5130.976	5142.950
25	4835.610	4853.572	4917.434	4905.460	4933.400
30	4526.275	4576.168	4608.099	4659.988	4669.966
35	4169.042	4230.910	4254.858	4348.657	4354.644
40	3731.982	3805.823	3869.686	3949.514	3991.424
45	3213.096	3300.908	3438.612	3502.475	3578.312
50	2690.220	2782.023	2989.577	3077.388	3153.225
55	2189.296	2283.095	2540.541	2664.276	2664.276
60	1712.321	1800.132	2105.476	2201.270	2045.605
65	1255.303	1357.084	1600.561	1586.591	1359.080
70	870.130	961.933	1099.637	983.886	788.306
75	546.825	608.692	636.632	504.915	409.121
80	281.395	305.344	277.404	211.545	171.631
85	91.803	75.837	55.880	49.893	41.910
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2021.49	N.A.	14.50
0-30	4274.71	N.A.	30.60
0-40	6942.09	N.A.	49.70
0-60	11786.98	N.A.	84.40
0-80	13859.76	N.A.	99.30
0-90	13962.99	N.A.	100.00
10-90	13438.89	N.A.	96.20
20-40	4920.61	N.A.	35.20
20-50	7552.3	N.A.	54.10
40-70	6301.53	N.A.	45.10
60-80	2072.78	N.A.	14.80
70-80	616.14	N.A.	4.40
80-90	103.23	N.A.	0.70
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	13962.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	524.10
10-20	1497.38
20-30	2253.22
30-40	2667.39
40-50	2631.69
50-60	2213.2
60-70	1456.64
70-80	616.14
80-90	103.23
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

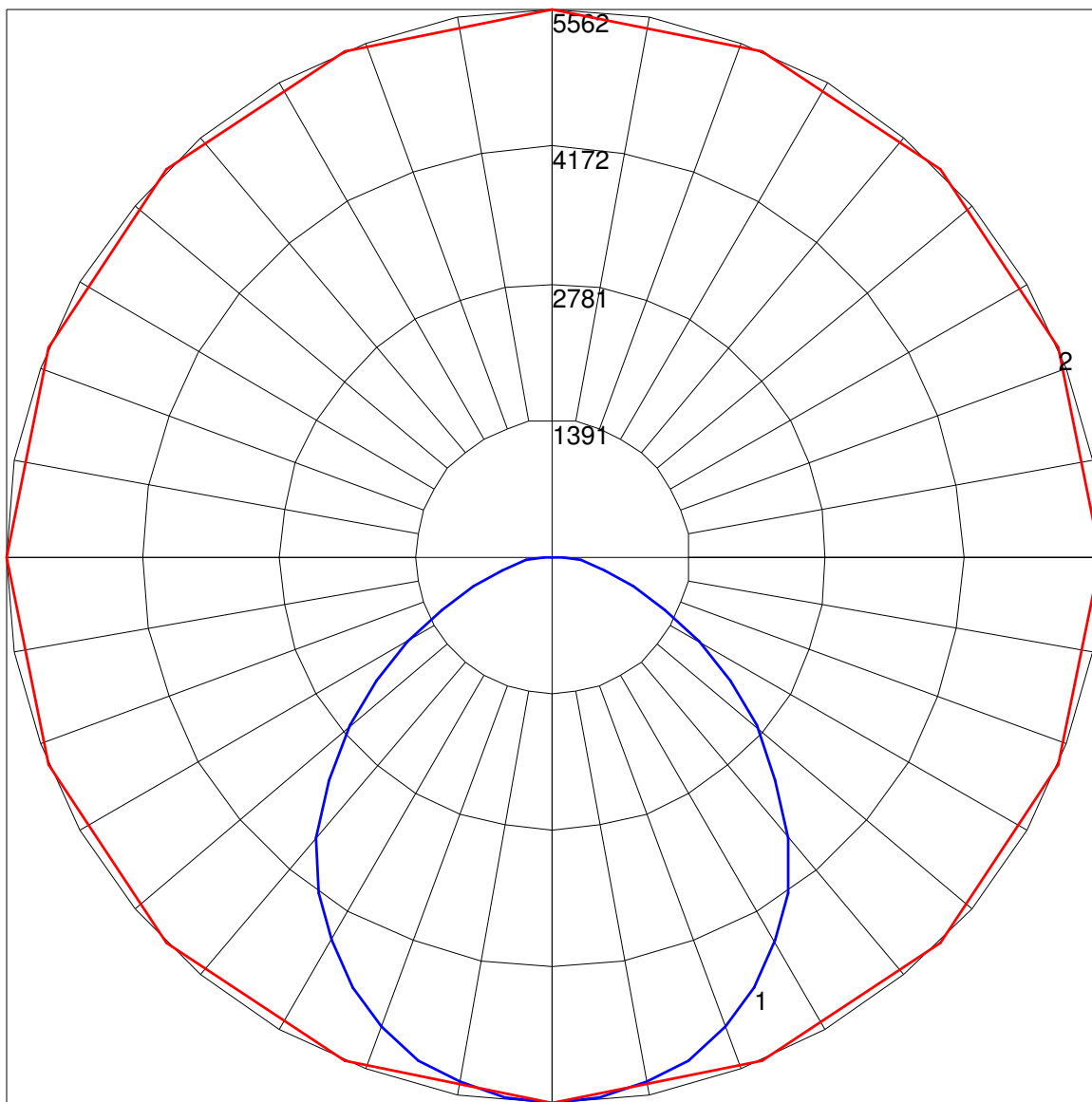
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

POLAR GRAPH



Maximum Candela = 5562.049 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.)