



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-AR24-L50-850-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
 [ISSUE DATE] 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-L50-850-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	5374
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	41.2
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	2519	2696	2806
55	2116	2456	2575
65	1647	2100	1783
75	1171	1364	876
85	584	355	267

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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	2140.843	2140.843	2140.843	2140.843	2140.843
5	2129.321	2129.321	2120.103	2117.799	2120.871
10	2094.754	2093.986	2090.145	2087.841	2090.145
15	2040.983	2040.983	2047.897	2040.983	2044.824
20	1964.168	1965.704	1984.908	1974.922	1979.531
25	1861.235	1868.149	1892.730	1888.121	1898.875
30	1742.172	1761.376	1773.666	1793.638	1797.479
35	1604.672	1628.485	1637.703	1673.806	1676.111
40	1436.447	1464.868	1489.449	1520.175	1536.307
45	1236.727	1270.526	1323.528	1348.109	1377.299
50	1035.471	1070.806	1150.694	1184.492	1213.682
55	842.664	878.767	977.859	1025.485	1025.485
60	659.076	692.874	810.402	847.273	787.357
65	483.168	522.344	616.059	610.682	523.112
70	334.915	370.250	423.252	378.700	303.421
75	210.474	234.287	245.041	194.343	157.471
80	108.310	117.527	106.773	81.424	66.061
85	35.335	29.190	21.508	19.204	16.131
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	778.07	N.A.	14.50
0-30	1645.34	N.A.	30.60
0-40	2672.03	N.A.	49.70
0-60	4536.83	N.A.	84.40
0-80	5334.65	N.A.	99.30
0-90	5374.38	N.A.	100.00
10-90	5172.65	N.A.	96.20
20-40	1893.95	N.A.	35.20
20-50	2906.89	N.A.	54.10
40-70	2425.47	N.A.	45.10
60-80	797.82	N.A.	14.80
70-80	237.15	N.A.	4.40
80-90	39.73	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	5374.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	201.73
10-20	576.35
20-30	867.27
30-40	1026.68
40-50	1012.94
50-60	851.86
60-70	560.67
70-80	237.15
80-90	39.73
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

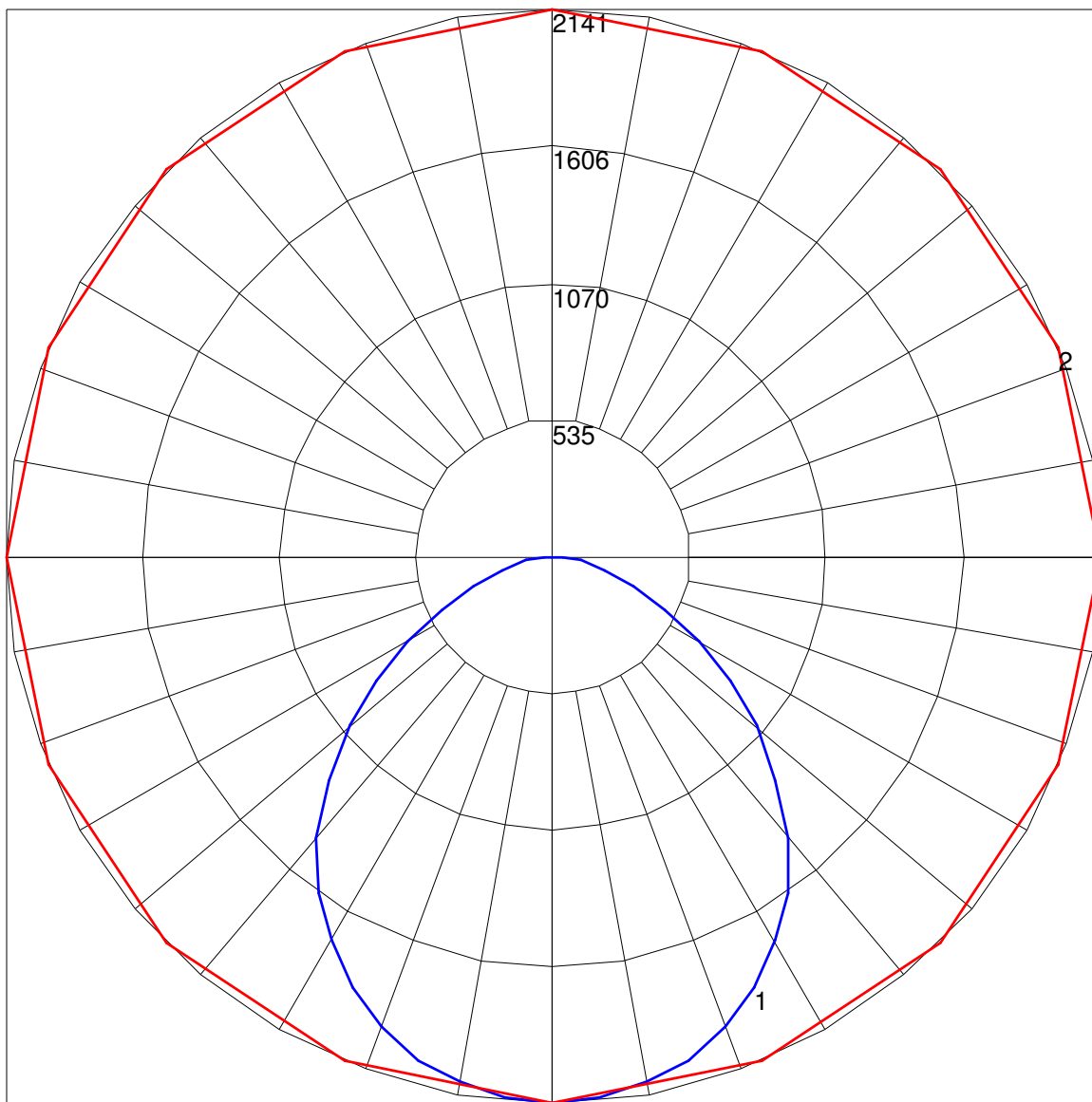
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2140.843 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.)