



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LT-14-L51-8FS-AF-XXX-XXX_3500K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 19935.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 19-JUN-2017

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-140 LED 22"ARRAYS 1x4'RECESSED LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC CENTER DIFFUSER

[MORE] ADVANCE DRIVER #XI040C110V054BST1 @ 850mA

[LUMCAT] LT-14-L51-8FS-xxx-xxx_3500K

[LAMPCAT] 10560280

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]Architectural, Classroom, Office

[_SEARCH_MOUNTING]Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5134
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4858	5108	5390
55	4603	5117	5476
65	4111	5032	5280
75	3148	4336	4247
85	1351	1915	2027

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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	1705.870	1705.870	1705.870	1705.870	1705.870
5	1732.097	1699.313	1691.664	1687.292	1685.107
10	1709.149	1675.272	1674.179	1671.993	1669.808
15	1667.622	1641.395	1642.487	1644.673	1643.580
20	1614.074	1593.311	1599.868	1609.703	1607.518
25	1545.228	1528.836	1545.228	1557.249	1561.620
30	1464.360	1455.618	1476.381	1494.959	1503.701
35	1369.286	1364.915	1393.328	1425.019	1434.854
40	1264.377	1260.005	1305.903	1343.059	1356.172
45	1147.446	1147.446	1206.458	1247.984	1273.119
50	1017.402	1028.330	1093.899	1140.889	1168.210
55	881.894	901.565	980.247	1026.145	1049.094
60	739.830	767.150	856.760	886.266	911.400
65	580.280	632.735	710.324	724.530	745.294
70	410.895	489.577	543.125	542.032	552.960
75	272.109	348.605	374.832	367.183	367.183
80	142.065	199.983	208.726	198.891	197.798
85	39.341	73.218	55.733	55.733	59.012
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	626.36	N.A.	12.20
0-30	1339.37	N.A.	26.10
0-40	2213.27	N.A.	43.10
0-60	4004.69	N.A.	78.00
0-80	5049.29	N.A.	98.40
0-90	5134.00	N.A.	100.00
10-90	4972.61	N.A.	96.90
20-40	1586.91	N.A.	30.90
20-50	2514.4	N.A.	49.00
40-70	2463.12	N.A.	48.00
60-80	1044.6	N.A.	20.30
70-80	372.90	N.A.	7.30
80-90	84.71	N.A.	1.60
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	5134.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.39
10-20	464.96
20-30	713.02
30-40	873.89
40-50	927.49
50-60	863.93
60-70	671.70
70-80	372.90
80-90	84.71
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

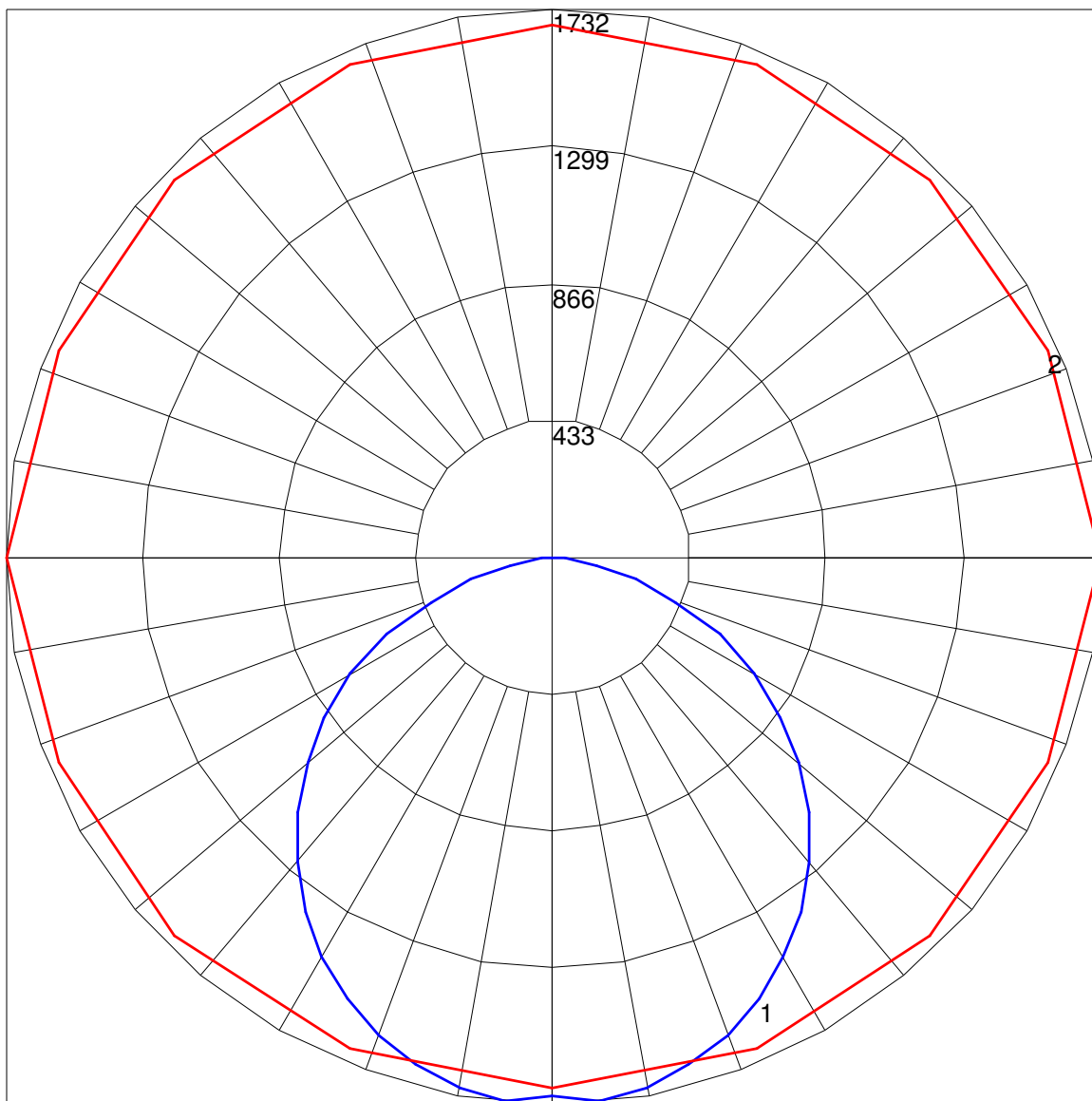
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 1732.097 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)