



IES INDOOR REPORT

PHOTOMETRIC FILENAME : RND-2-L22-835-FXA-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 18641.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 07-OCT-2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 3-32LED 22"ARRAYS 2x2'RECESSED LUMINAIRE w/WHITE REFL
 [MORE] ARRAYS ON WHITE INTERNAL REFLS & 2"DIA WHITE FROST ACRYLIC
 [MORE] CONVEX LENS
 [LUMCAT] RND-2-L22-835-FXA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2276
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	28.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.81 ft (Diameter)
Luminous Width (90-270)	1.81 ft (Diameter)
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2899	2877	2888
55	2618	2665	2611
65	2337	2363	2311
75	1954	1941	1864
85	1360	1333	1333

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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	809.494	809.494	809.494	809.494	809.494
5	811.541	809.494	807.448	807.448	805.401
10	800.284	799.261	796.190	797.214	796.190
15	780.840	780.840	778.793	777.770	777.770
20	753.208	753.208	752.185	751.162	750.138
25	721.484	719.437	720.460	716.367	719.437
30	683.619	678.502	680.548	674.408	680.548
35	636.543	632.449	632.449	627.333	634.496
40	583.327	581.280	579.234	574.117	581.280
45	528.065	527.041	523.971	517.831	526.018
50	464.615	465.638	465.638	464.615	463.592
55	398.095	403.212	405.259	404.235	397.072
60	338.739	338.739	342.833	338.739	333.622
65	274.266	272.219	277.336	273.243	271.196
70	211.840	205.700	215.933	209.793	207.746
75	154.531	147.367	153.507	149.414	147.367
80	97.221	94.151	94.151	90.058	92.104
85	52.192	50.146	51.169	49.122	51.169
90	22.514	21.491	18.421	18.421	16.374

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	296.52	N.A.	13.00
0-30	627.76	N.A.	27.60
0-40	1022.86	N.A.	44.90
0-60	1787.04	N.A.	78.50
0-80	2218.09	N.A.	97.40
0-90	2276.32	N.A.	100.00
10-90	2199.53	N.A.	96.60
20-40	726.33	N.A.	31.90
20-50	1130.44	N.A.	49.70
40-70	1035.8	N.A.	45.50
60-80	431.05	N.A.	18.90
70-80	159.43	N.A.	7.00
80-90	58.23	N.A.	2.60
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	2276.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.79
10-20	219.74
20-30	331.23
30-40	395.10
40-50	404.10
50-60	360.08
60-70	271.62
70-80	159.43
80-90	58.23
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

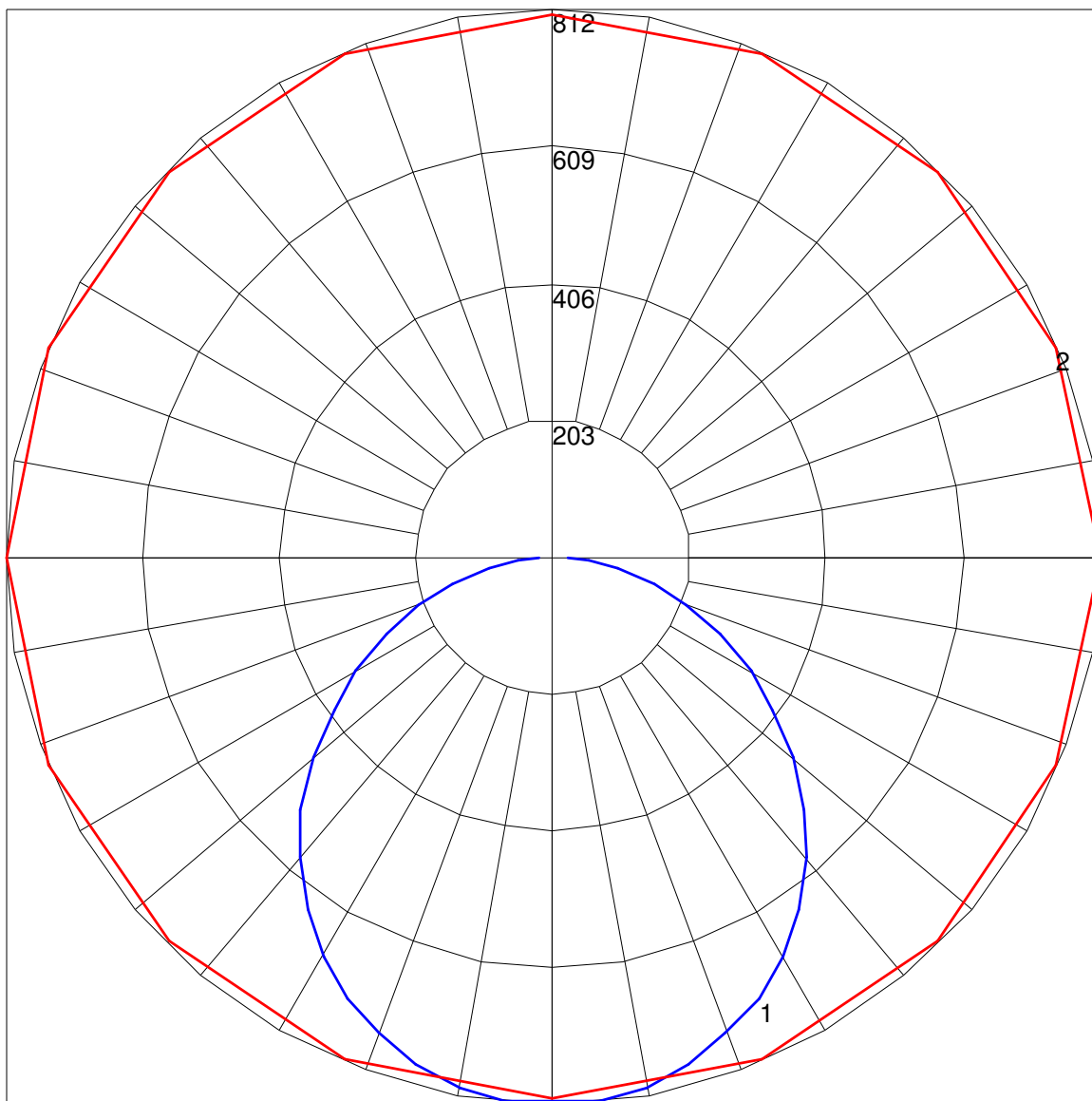
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 811.541 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.)