



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RND-3-L66-835-FXA-DIM-UNV.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 18642.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 07-OCT-2018  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 8-32LED 22"ARRAYS 3x3'SQ HOUSING w/34"DIA APERTURE  
 [MORE] ARRAYS ON WHITE INTERNAL REFLS & WHITE ACRYLIC DROP LENS  
 [LUMCAT] RND-3-L66-835-FXA-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 3500K CCT

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6702
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	66.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	2.80 ft (Diameter)
Luminous Width (90-270)	2.80 ft (Diameter)
Luminous Height	0.17 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3505	3510	3505
55	3227	3241	3222
65	2862	2862	2870
75	2330	2330	2330
85	1713	1691	1713

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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	2506.590	2506.590	2506.590	2506.590	2506.590
5	2472.772	2476.871	2472.772	2476.871	2472.772
10	2424.608	2426.658	2426.658	2426.658	2429.732
15	2357.998	2357.998	2363.122	2363.122	2367.221
20	2257.570	2260.645	2260.645	2262.694	2262.694
25	2147.920	2153.044	2153.044	2153.044	2153.044
30	1926.569	1926.569	1928.619	1926.569	1926.569
35	1791.300	1794.374	1798.473	1798.473	1794.374
40	1651.931	1655.005	1655.005	1651.931	1651.931
45	1528.958	1531.008	1531.008	1528.958	1528.958
50	1348.599	1352.698	1354.747	1352.698	1352.698
55	1176.437	1181.561	1181.561	1181.561	1174.388
60	984.805	984.805	986.854	986.854	986.854
65	806.495	802.396	806.495	806.495	808.544
70	631.259	633.308	631.259	631.259	633.308
75	443.726	440.652	443.726	440.652	443.726
80	285.911	285.911	283.862	285.911	285.911
85	159.864	159.864	157.815	157.815	159.864
90	66.610	66.610	63.536	66.610	66.610
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	899.93	N.A.	13.40
0-30	1879.08	N.A.	28.00
0-40	3002.86	N.A.	44.80
0-60	5226.17	N.A.	78.00
0-80	6501.28	N.A.	97.00
0-90	6683.51	N.A.	99.70
10-90	6448.61	N.A.	96.20
20-40	2102.93	N.A.	31.40
20-50	3274.86	N.A.	48.90
40-70	3022.96	N.A.	45.10
60-80	1275.11	N.A.	19.00
70-80	475.47	N.A.	7.10
80-90	182.23	N.A.	2.70
90-110	18.03	N.A.	0.30
90-120	18.03	N.A.	0.30
90-130	18.03	N.A.	0.30
90-150	18.03	N.A.	0.30
90-180	18.03	N.A.	0.30
110-180	0.00	N.A.	0.00
0-180	6701.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	234.90
10-20	665.03
20-30	979.15
30-40	1123.78
40-50	1171.93
50-60	1051.39
60-70	799.64
70-80	475.47
80-90	182.23
90-100	18.03
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

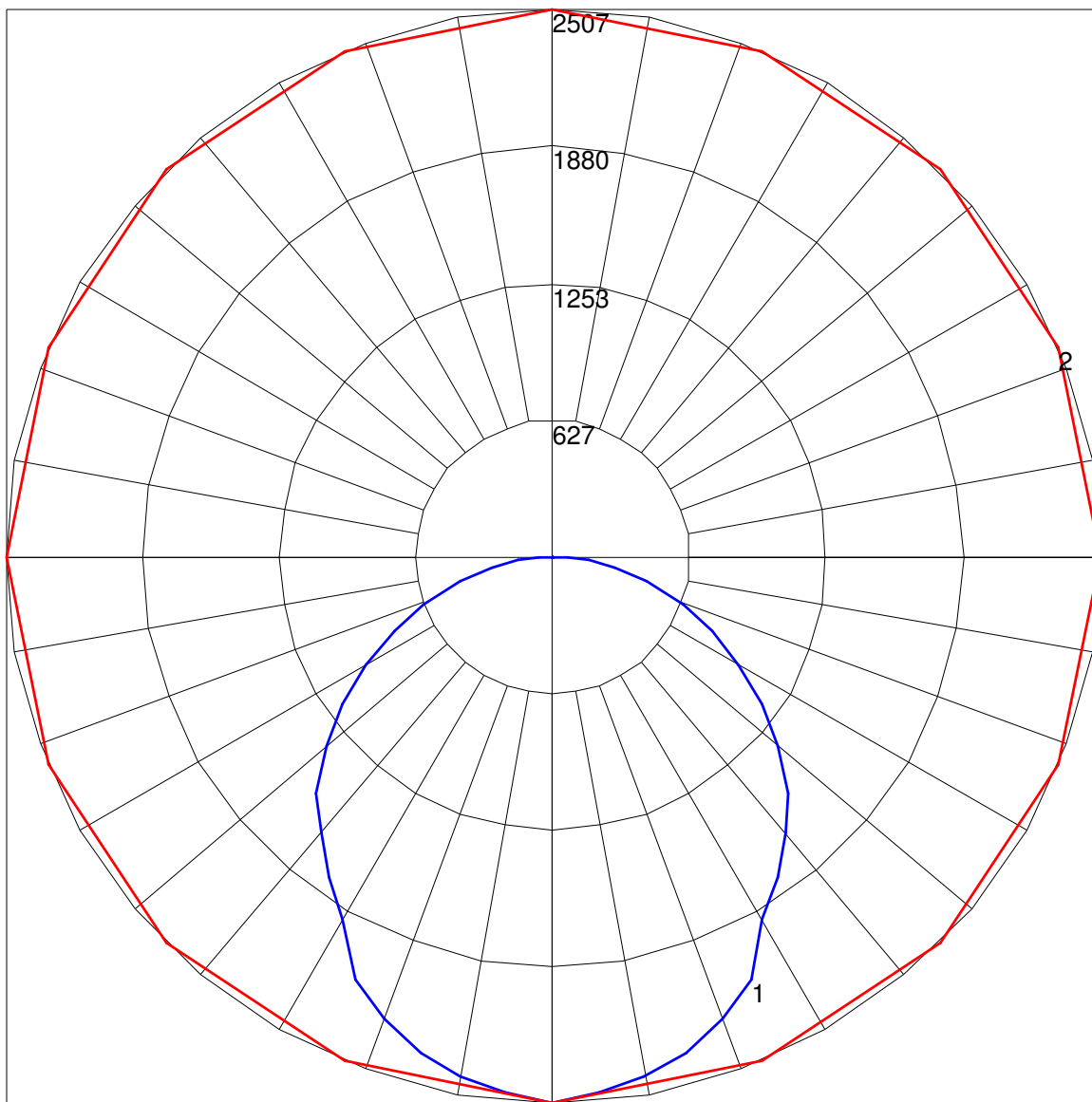
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	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	59	52	46	57	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	43	36	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 2506.59 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.)