



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RND-3-L150-835-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-L150-835-FXA-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15196
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	154
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	7948	7958	7948
55	7318	7350	7305
65	6490	6490	6507
75	5283	5283	5283
85	3884	3835	3884

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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	5683.770	5683.770	5683.770	5683.770	5683.770
5	5607.088	5616.383	5607.088	5616.383	5607.088
10	5497.874	5502.521	5502.521	5502.521	5509.493
15	5346.834	5346.834	5358.452	5358.452	5367.747
20	5119.111	5126.082	5126.082	5130.729	5130.729
25	4870.475	4882.094	4882.094	4882.094	4882.094
30	4368.556	4368.556	4373.203	4368.556	4368.556
35	4061.828	4068.799	4078.093	4078.093	4068.799
40	3745.804	3752.775	3752.775	3745.804	3745.804
45	3466.960	3471.608	3471.608	3466.960	3466.960
50	3057.989	3067.284	3071.931	3067.284	3067.284
55	2667.608	2679.226	2679.226	2679.226	2662.960
60	2233.076	2233.076	2237.723	2237.723	2237.723
65	1828.752	1819.457	1828.752	1828.752	1833.399
70	1431.399	1436.047	1431.399	1431.399	1436.047
75	1006.162	999.191	1006.162	999.191	1006.162
80	648.312	648.312	643.665	648.312	648.312
85	362.497	362.497	357.850	357.850	362.497
90	151.040	151.040	144.069	151.040	151.040
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	2040.61	N.A.	13.40
0-30	4260.86	N.A.	28.00
0-40	6809.07	N.A.	44.80
0-60	11850.51	N.A.	78.00
0-80	14741.86	N.A.	97.00
0-90	15155.07	N.A.	99.70
10-90	14622.43	N.A.	96.20
20-40	4768.46	N.A.	31.40
20-50	7425.85	N.A.	48.90
40-70	6854.65	N.A.	45.10
60-80	2891.34	N.A.	19.00
70-80	1078.13	N.A.	7.10
80-90	413.21	N.A.	2.70
90-110	40.88	N.A.	0.30
90-120	40.88	N.A.	0.30
90-130	40.88	N.A.	0.30
90-150	40.88	N.A.	0.30
90-180	40.88	N.A.	0.30
110-180	0.00	N.A.	0.00
0-180	15195.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	532.64
10-20	1507.97
20-30	2220.25
30-40	2548.21
40-50	2657.39
50-60	2384.06
60-70	1813.21
70-80	1078.13
80-90	413.21
90-100	40.88
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

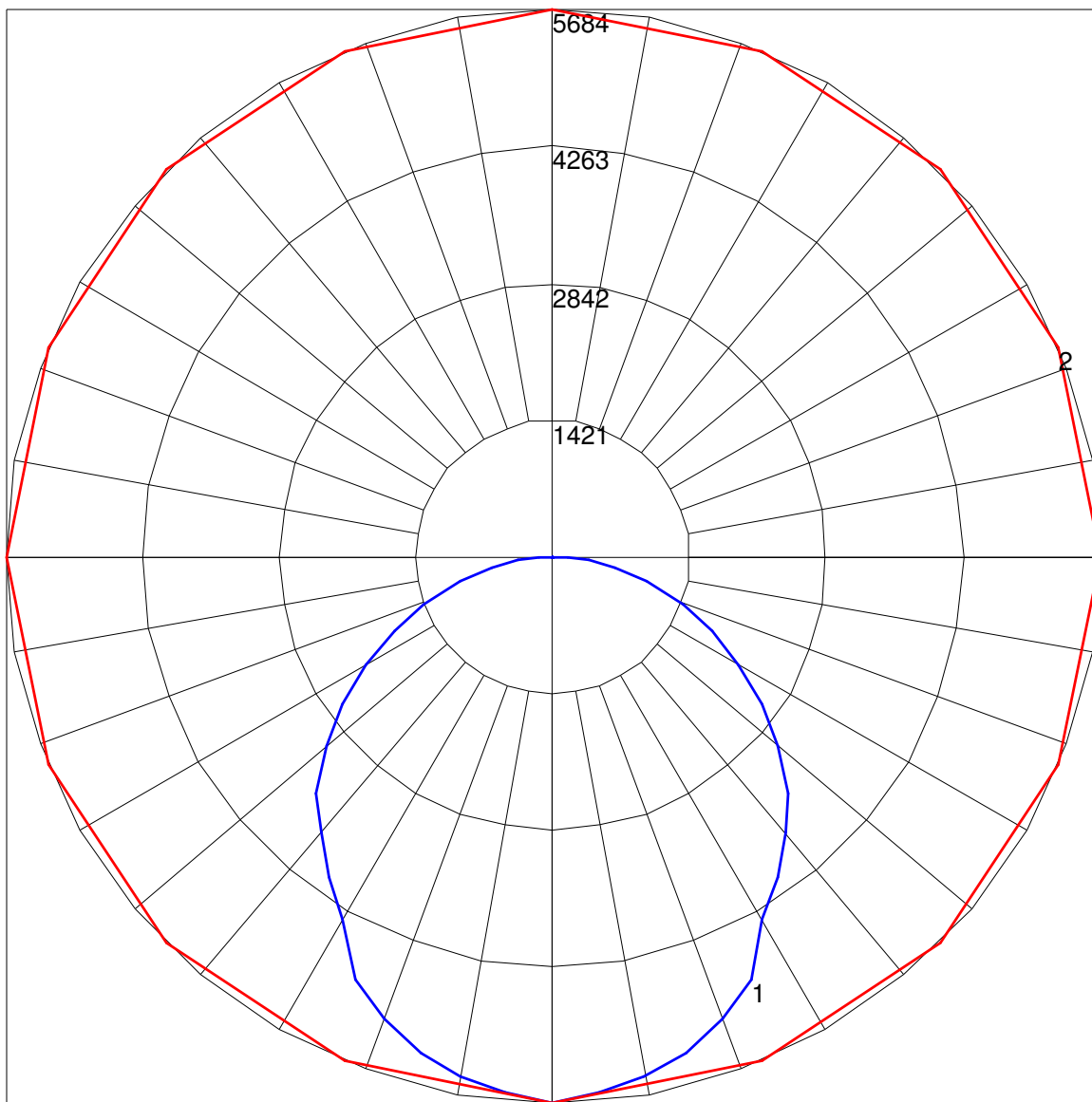
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	90	93	90	88	89	87	85	83
2	99	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 = 5683.77 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.)