H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-22-P47-835-SA-POE N.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 20789.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 16-MAY-2019
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 1-84 LED 22"ARRAY 2x2 LUMINAIRE
[MORE] WHITE REFLECTOR w/FROST SQUARED RIBBED LENS
[LUMCAT] PT-22-P47-835-SA-POE N
[LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4849
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	37
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4335	4271	4211
55	3895	3931	4040
65	3410	3719	4176
75	2658	3744	4840
85	1383	3485	4695

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-22-P47-835-SA-POE N.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1921.887	1921.887	1921.887	1921.887	1921.887
5	1921.887	1909.487	1901.516	1902.402	1900.631
10	1881.146	1871.404	1863.433	1859.890	1857.233
15	1814.722	1807.636	1798.780	1791.694	1789.923
20	1739.440	1727.927	1706.671	1702.243	1697.814
25	1629.618	1625.190	1600.391	1587.992	1580.021
30	1504.740	1497.655	1480.827	1461.342	1448.057
35	1363.920	1365.691	1344.435	1324.950	1316.980
40	1219.557	1223.985	1202.729	1189.444	1184.130
45	1081.393	1078.736	1065.451	1061.023	1050.395
50	934.373	937.030	924.631	935.259	926.403
55	788.239	796.210	795.325	817.466	817.466
60	644.762	650.076	673.103	703.216	716.501
65	508.370	521.655	554.424	597.822	622.620
70	370.207	393.234	448.145	503.942	534.054
75	242.671	283.412	341.866	406.519	441.945
80	128.421	174.475	240.014	303.782	336.552
85	42.512	70.853	107.165	131.078	144.363
90	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-22-P47-835-SA-POE N.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	687.78	N.A.	14.20
0-30	1426.06	N.A.	29.40
0-40	2266.94	N.A.	46.70
0-60	3810.95	N.A.	78.60
0-80	4729.88	N.A.	97.50
0-90	4849.36	N.A.	100.00
10-90	4668.66	N.A.	96.30
20-40	1579.16	N.A.	32.60
20-50	2403.94	N.A.	49.60
40-70	2100.17	N.A.	43.30
60-80	918.93	N.A.	18.90
70-80	362.77	N.A.	7.50
80-90	119.48	N.A.	2.50
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	4849.36	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.70
10-20	507.07
20-30	738.28
30-40	840.88
40-50	824.78
50-60	719.23
60-70	556.16
70-80	362.77
80-90	119.48
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

Photometric Toolbox Professional Edition - Copyright 2002-2015 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-22-P47-835-SA-POE N.IES

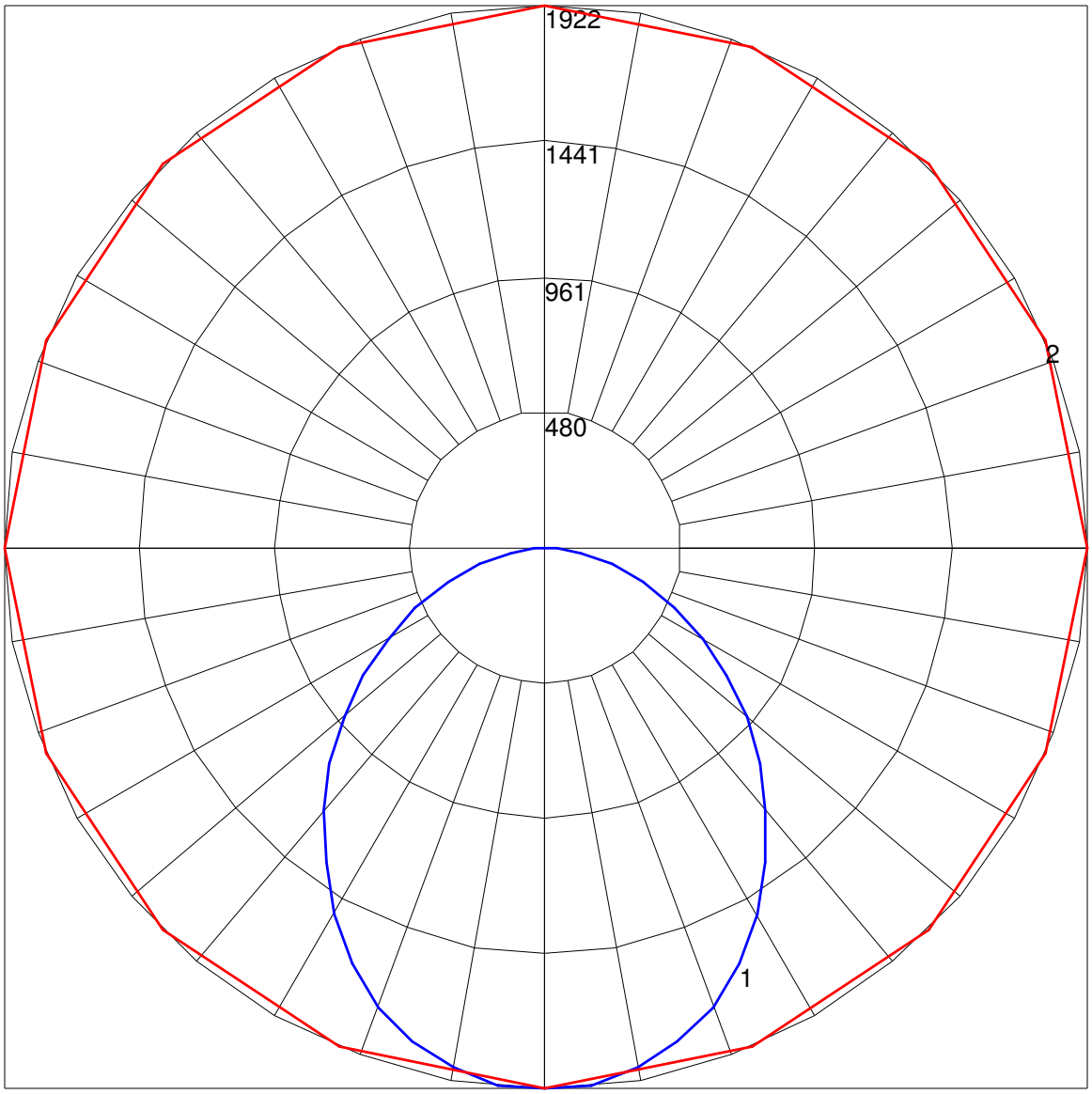
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	91	88	90	87	85	83
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-22-P47-835-SA-POE N.IES

POLAR GRAPH



Maximum Candela = 1921.887 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.)