



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L29-8TW-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 20789.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 30-APR-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 1-84 LED 22"ARRAY 2x2 SURFACE LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROST SQUARED RIBBED LENS
 [MORE] ADVANCE #C1042C092V045CNN1
 [LUMCAT] PTS-22-L29-8TW-SA-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3017
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	26.8
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	2697	2657	2620
55	2424	2446	2514
65	2122	2314	2598
75	1654	2330	3012
85	860	2169	2921

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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	1195.779	1195.779	1195.779	1195.779	1195.779
5	1195.779	1188.064	1183.105	1183.656	1182.554
10	1170.431	1164.369	1159.410	1157.205	1155.552
15	1129.102	1124.693	1119.183	1114.775	1113.672
20	1082.263	1075.099	1061.874	1059.118	1056.363
25	1013.932	1011.177	995.748	988.033	983.074
30	936.234	931.826	921.356	909.233	900.967
35	848.617	849.719	836.494	824.371	819.412
40	758.796	761.551	748.326	740.060	736.754
45	672.832	671.179	662.913	660.158	653.546
50	581.358	583.011	575.296	581.909	576.398
55	490.435	495.394	494.843	508.619	508.619
60	401.165	404.471	418.798	437.534	445.800
65	316.303	324.569	344.957	371.959	387.388
70	230.339	244.666	278.831	313.548	332.283
75	150.988	176.336	212.705	252.932	274.974
80	79.902	108.557	149.335	189.010	209.399
85	26.450	44.084	66.677	81.555	89.821
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	427.93	N.A.	14.20
0-30	887.28	N.A.	29.40
0-40	1410.46	N.A.	46.70
0-60	2371.14	N.A.	78.60
0-80	2942.88	N.A.	97.50
0-90	3017.22	N.A.	100.00
10-90	2904.79	N.A.	96.30
20-40	982.54	N.A.	32.60
20-50	1495.71	N.A.	49.60
40-70	1306.71	N.A.	43.30
60-80	571.75	N.A.	18.90
70-80	225.71	N.A.	7.50
80-90	74.34	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	3017.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	112.43
10-20	315.49
20-30	459.35
30-40	523.18
40-50	513.17
50-60	447.50
60-70	346.04
70-80	225.71
80-90	74.34
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

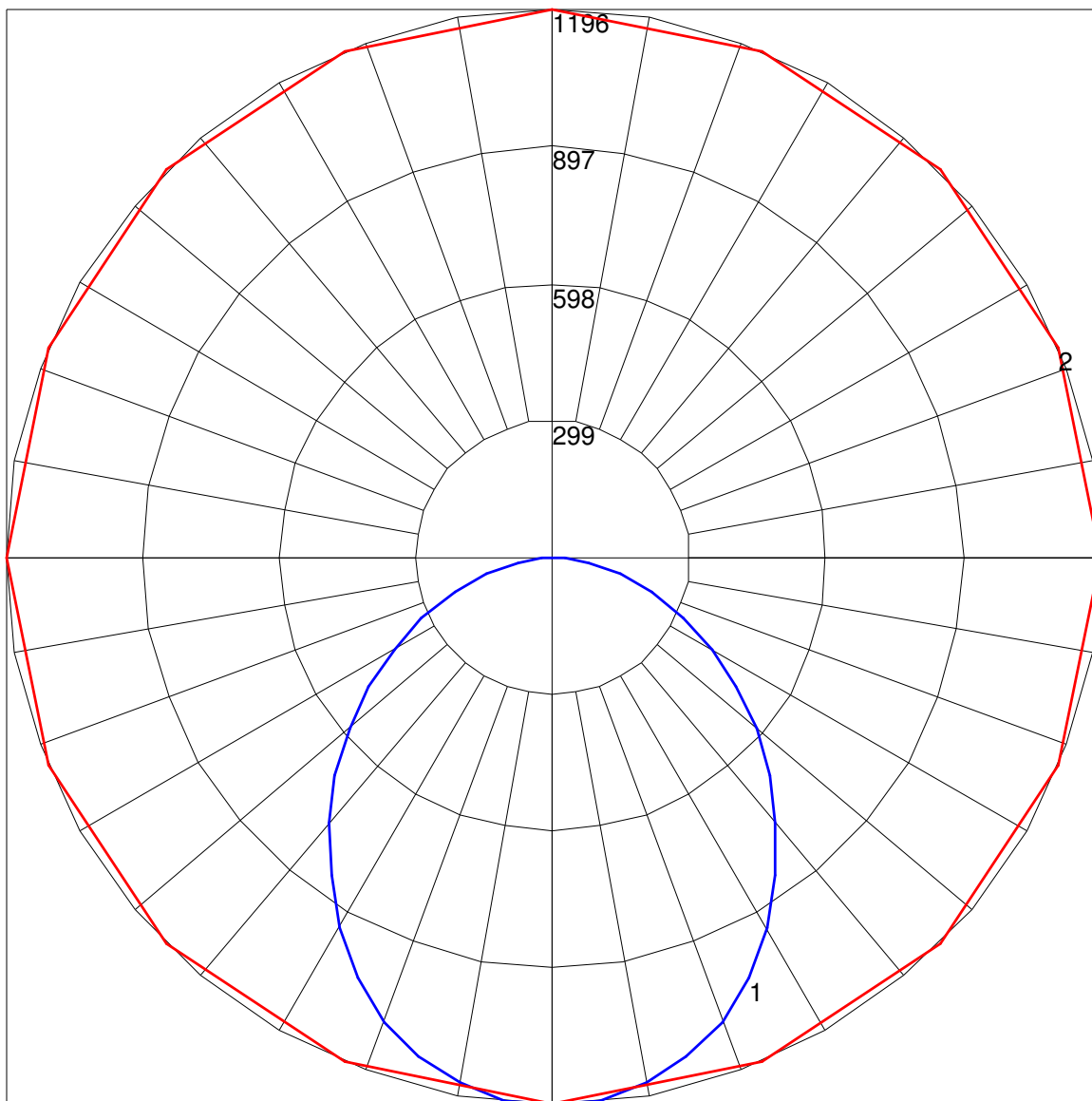
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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

POLAR GRAPH



Maximum Candela = 1195.779 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.)