



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-22-L26-835-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 LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROST SQUARED RIBBED LENS
 [MORE] ADVANCE #C1042C092V045CNN1
 [LUMCAT] PTS-22-L26-835-SA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2712
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	21.3
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	2425	2389	2355
55	2179	2198	2259
65	1907	2080	2336
75	1486	2094	2707
85	773	1949	2626

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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	1074.893	1074.893	1074.893	1074.893	1074.893
5	1074.893	1067.958	1063.500	1063.995	1063.005
10	1052.107	1046.658	1042.200	1040.219	1038.733
15	1014.957	1010.994	1006.040	1002.078	1001.087
20	972.852	966.413	954.525	952.048	949.571
25	911.430	908.953	895.084	888.149	883.691
30	841.587	837.624	828.212	817.315	809.885
35	762.827	763.818	751.930	741.032	736.574
40	682.086	684.563	672.675	665.245	662.273
45	604.813	603.327	595.897	593.420	587.476
50	522.586	524.072	517.137	523.082	518.128
55	440.855	445.313	444.817	457.201	457.201
60	360.609	363.581	376.460	393.302	400.732
65	284.327	291.757	310.084	334.356	348.226
70	207.053	219.932	250.643	281.850	298.691
75	135.724	158.510	191.202	227.362	247.176
80	71.825	97.582	134.238	169.902	188.230
85	23.776	39.627	59.936	73.311	80.741
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	384.67	N.A.	14.20
0-30	797.58	N.A.	29.40
0-40	1267.88	N.A.	46.70
0-60	2131.43	N.A.	78.60
0-80	2645.37	N.A.	97.50
0-90	2712.2	N.A.	100.00
10-90	2611.13	N.A.	96.30
20-40	883.21	N.A.	32.60
20-50	1344.5	N.A.	49.60
40-70	1174.61	N.A.	43.30
60-80	513.95	N.A.	18.90
70-80	202.89	N.A.	7.50
80-90	66.83	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	2712.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.07
10-20	283.60
20-30	412.92
30-40	470.29
40-50	461.29
50-60	402.26
60-70	311.06
70-80	202.89
80-90	66.83
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

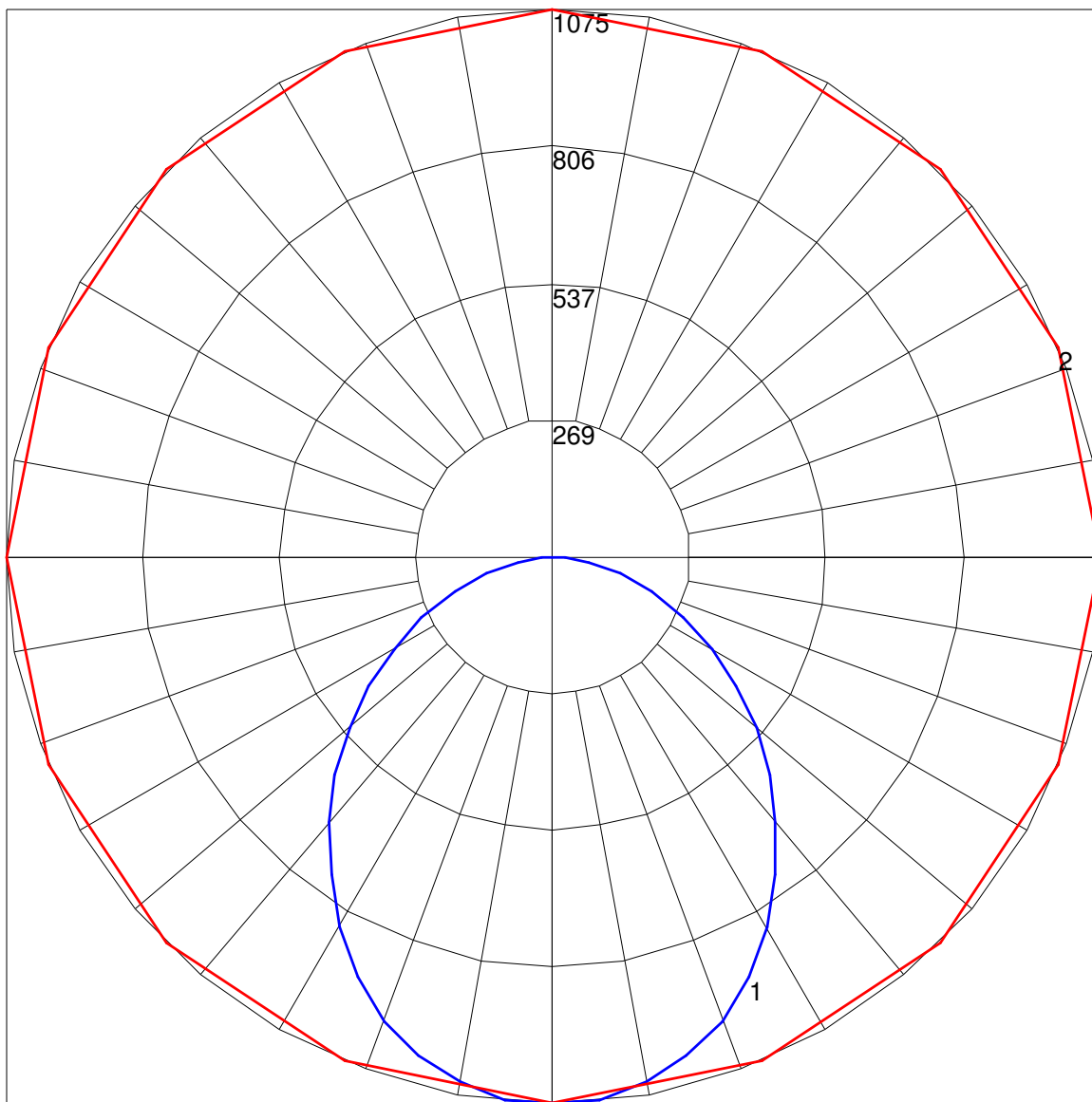
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56
1	61	58	56	53	59	57	55	53	54	53	51	52	51	49	50	49	48	47
2	55	51	47	44	54	50	46	43	48	45	42	46	43	41	44	42	40	39
3	50	45	40	36	49	44	39	36	42	38	35	40	37	35	39	36	34	33
4	46	40	35	31	45	39	34	31	37	33	30	36	33	30	35	32	29	28
5	43	35	30	27	41	35	30	27	34	30	26	33	29	26	32	28	26	25
6	39	32	27	24	38	32	27	23	31	26	23	30	26	23	29	25	23	22
7	37	29	24	21	36	29	24	21	28	24	21	27	23	20	26	23	20	19
8	34	27	22	19	33	26	22	19	26	21	19	25	21	18	24	21	18	17
9	32	25	20	17	31	24	20	17	24	20	17	23	19	17	22	19	17	16
10	30	23	18	15	29	22	18	15	22	18	15	21	18	15	21	18	15	14

POLAR GRAPH



Maximum Candela = 1074.893 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.)