



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-14-L43-8TW-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 20790.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 03-MAY-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-84 LED 22"ARRAYS w/WHITE REFLECTOR
 [MORE] FROST SQUARED RIBBED LENS - 1x4 SURFACE LUMINAIRE
 [MORE] ADVANCE #XI075C200V054BST1 @ 1525mA
 [LUMCAT] PTS-14-L43-8TW-SA-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4449
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	37.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3975	3852	3824
55	3577	3598	3678
65	3126	3459	3789
75	2523	3492	4358
85	1169	3770	4555

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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	1732.637	1732.637	1732.637	1732.637	1732.637
5	1741.246	1722.116	1712.552	1688.640	1710.639
10	1707.769	1687.205	1674.771	1672.380	1675.728
15	1651.338	1631.252	1620.253	1616.427	1613.557
20	1576.255	1556.648	1538.475	1529.388	1530.823
25	1482.522	1466.262	1458.610	1434.698	1425.612
30	1373.006	1356.268	1339.052	1326.140	1318.966
35	1259.187	1243.884	1223.320	1205.625	1195.582
40	1128.629	1116.195	1094.675	1080.806	1072.676
45	1002.376	988.029	971.291	963.639	964.117
50	868.949	864.645	846.472	849.820	854.124
55	731.696	731.696	736.000	747.478	752.260
60	604.008	606.877	626.485	646.093	658.048
65	471.059	488.276	521.274	555.228	571.010
70	343.371	372.065	419.410	464.842	483.493
75	232.899	262.550	322.329	381.152	402.194
80	121.949	172.642	234.812	296.983	316.590
85	36.346	81.778	117.167	132.949	141.557
90	0.000	1.435	1.913	3.348	1.913

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	619.96	N.A.	13.90
0-30	1288.13	N.A.	29.00
0-40	2053.72	N.A.	46.20
0-60	3470.82	N.A.	78.00
0-80	4328.53	N.A.	97.30
0-90	4449.2	N.A.	100.00
10-90	4286.61	N.A.	96.30
20-40	1433.76	N.A.	32.20
20-50	2188.12	N.A.	49.20
40-70	1934.17	N.A.	43.50
60-80	857.72	N.A.	19.30
70-80	340.64	N.A.	7.70
80-90	120.67	N.A.	2.70
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	4449.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.59
10-20	457.37
20-30	668.17
30-40	765.59
40-50	754.35
50-60	662.74
60-70	517.08
70-80	340.64
80-90	120.67
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

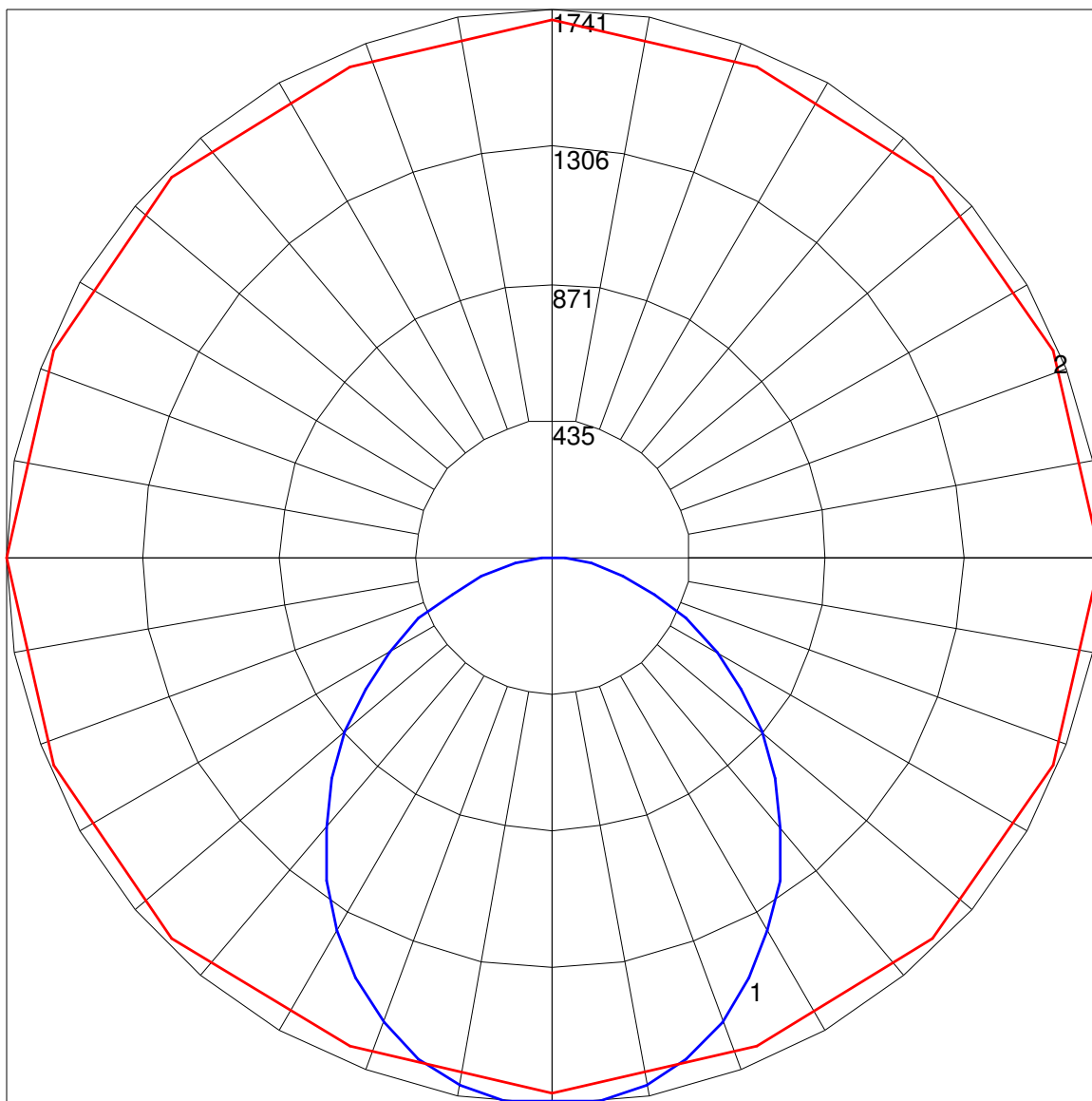
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1741.246 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)