



IES INDOOR REPORT

PHOTOMETRIC FILENAME : PTS-24-L33-8TW-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
 [ISSUEDATE] 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 - 2x4 SURFACE LUMINAIRE
 [MORE] ADVANCE #XI075C200V054BST1 @ 1525mA
 [LUMCAT] PTS-24-L33-8TW-SA-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3526
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	28.6
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)	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	1559	1510	1499
55	1403	1411	1442
65	1225	1356	1486
75	989	1369	1709
85	458	1478	1786

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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	1373.180	1373.180	1373.180	1373.180	1373.180
5	1380.003	1364.842	1357.262	1338.311	1355.746
10	1353.471	1337.174	1327.319	1325.424	1328.077
15	1308.747	1292.829	1284.111	1281.079	1278.805
20	1249.242	1233.702	1219.299	1212.098	1213.235
25	1174.954	1162.068	1156.003	1137.053	1129.851
30	1088.159	1074.894	1061.249	1051.016	1045.330
35	997.953	985.825	969.527	955.503	947.544
40	894.481	884.627	867.571	856.580	850.136
45	794.421	783.050	769.785	763.720	764.099
50	688.675	685.264	670.861	673.514	676.925
55	579.897	579.897	583.308	592.404	596.195
60	478.699	480.973	496.513	512.053	521.528
65	373.332	386.977	413.129	440.039	452.547
70	272.135	294.876	332.398	368.405	383.187
75	184.582	208.081	255.458	302.077	318.754
80	96.649	136.825	186.098	235.370	250.910
85	28.805	64.812	92.859	105.367	112.189
90	0.000	1.137	1.516	2.653	1.516

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	491.34	N.A.	13.90
0-30	1020.89	N.A.	29.00
0-40	1627.65	N.A.	46.20
0-60	2750.75	N.A.	78.00
0-80	3430.53	N.A.	97.30
0-90	3526.16	N.A.	100.00
10-90	3397.3	N.A.	96.30
20-40	1136.31	N.A.	32.20
20-50	1734.16	N.A.	49.20
40-70	1532.9	N.A.	43.50
60-80	679.77	N.A.	19.30
70-80	269.97	N.A.	7.70
80-90	95.63	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	3526.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.86
10-20	362.48
20-30	529.55
30-40	606.76
40-50	597.85
50-60	525.25
60-70	409.80
70-80	269.97
80-90	95.63
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

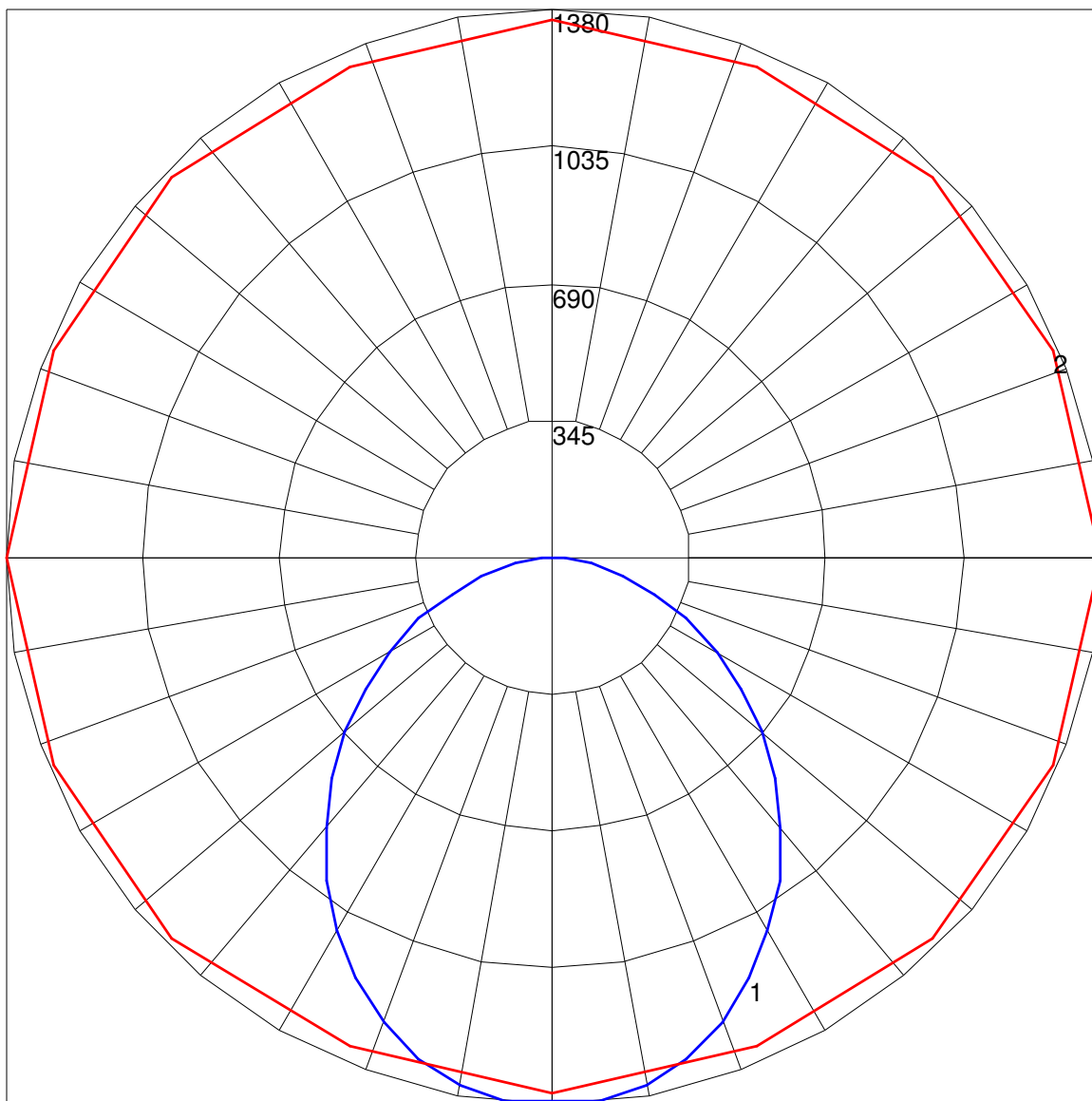
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1380.003 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.)