



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : XT-CBL-4-232-30%PERF-EB2.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-1995  
 [TEST]BALLABS TEST NO. 12176.0  
 [MANUFAC] H.E. WILLIAMS, INC  
 [LUMINAIRE] 2/32W T8 LAMP 4'DIR/INDIRECT PENDANT MNT LUMINAIRE  
 [LUMINAIRE] 24-CELL 3.75"DP WHITE BAFFLE w/PERFORATED TOP LAMP SHIELD  
 [LUMINAIRE] SYLVANIA BALLAST #QT2x32T8/120ISN-SC WATTS=61  
 [LUMCAT] XT-CBL-4-232-EB2-120  
 [LAMPCAT] F32T8/835/RS

**CHARACTERISTICS**

Lumens Per Lamp	2950 (2 lamps)
Total Lamp Lumens	5900
Luminaire Lumens	4035
Total Luminaire Efficiency	68 %
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	61
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criteria (0-180)	1.10
Spacing Criteria (90-270)	1.46
Spacing Criteria (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.99 ft
Luminous Width (90-270)	0.91 ft
Luminous Height	0.32 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1798	2018	2878
55	1330	1640	2612
65	786	1172	2090
75	583	875	1440
85	284	685	1345

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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>
<b>0</b>	1005	1005	1005	1005	1005
<b>5</b>	996	999	1007	1010	1012
<b>10</b>	978	984	999	1019	1030
<b>15</b>	944	954	981	1016	1037
<b>20</b>	881	896	944	999	1039
<b>25</b>	810	829	890	960	1013
<b>30</b>	710	734	813	906	974
<b>35</b>	641	668	760	873	957
<b>40</b>	551	582	691	825	927
<b>45</b>	462	500	628	798	928
<b>50</b>	378	417	543	718	847
<b>55</b>	286	323	456	631	760
<b>60</b>	195	240	359	522	643
<b>65</b>	131	180	277	427	524
<b>70</b>	96	134	215	326	387
<b>75</b>	66	90	164	254	292
<b>80</b>	39	55	121	204	237
<b>85</b>	16	36	91	170	200
<b>90</b>	0	24	76	149	176
<b>95</b>	3	16	66	134	162
<b>100</b>	13	18	66	134	159
<b>105</b>	31	34	69	132	156
<b>110</b>	48	52	81	123	140
<b>115</b>	73	85	115	144	155
<b>120</b>	102	121	162	183	188
<b>125</b>	140	161	212	234	237
<b>130</b>	177	200	257	295	301
<b>135</b>	202	226	283	331	343
<b>140</b>	251	271	320	364	382
<b>145</b>	292	308	353	393	409
<b>150</b>	310	326	362	396	411
<b>155</b>	353	364	394	421	433
<b>160</b>	367	374	396	414	424
<b>165</b>	417	423	435	445	450
<b>170</b>	408	411	417	421	424
<b>175</b>	414	414	417	417	418
<b>180</b>	405	405	405	405	405

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-30	784.75	13.3	19.4
0-40	1267.81	21.5	31.4
0-60	2198.84	37.3	54.5
0-90	2799.65	47.5	69.4
90-120	287.19	4.9	7.1
90-130	465.58	7.9	11.5
90-150	898.7	15.2	22.3
90-180	1235.12	20.9	30.6
0-180	4034.77	68.4	100

Total Luminaire Efficiency = 68.4%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.81
10-20	277.34
20-30	411.6
30-40	483.06
40-50	500.76
50-60	430.28
60-70	301.93
70-80	185.39
80-90	113.49
90-100	84.43
100-110	86.65
110-120	116.12
120-130	178.39
130-140	216.62
140-150	216.5
150-160	178.07
160-170	118.76
170-180	39.59

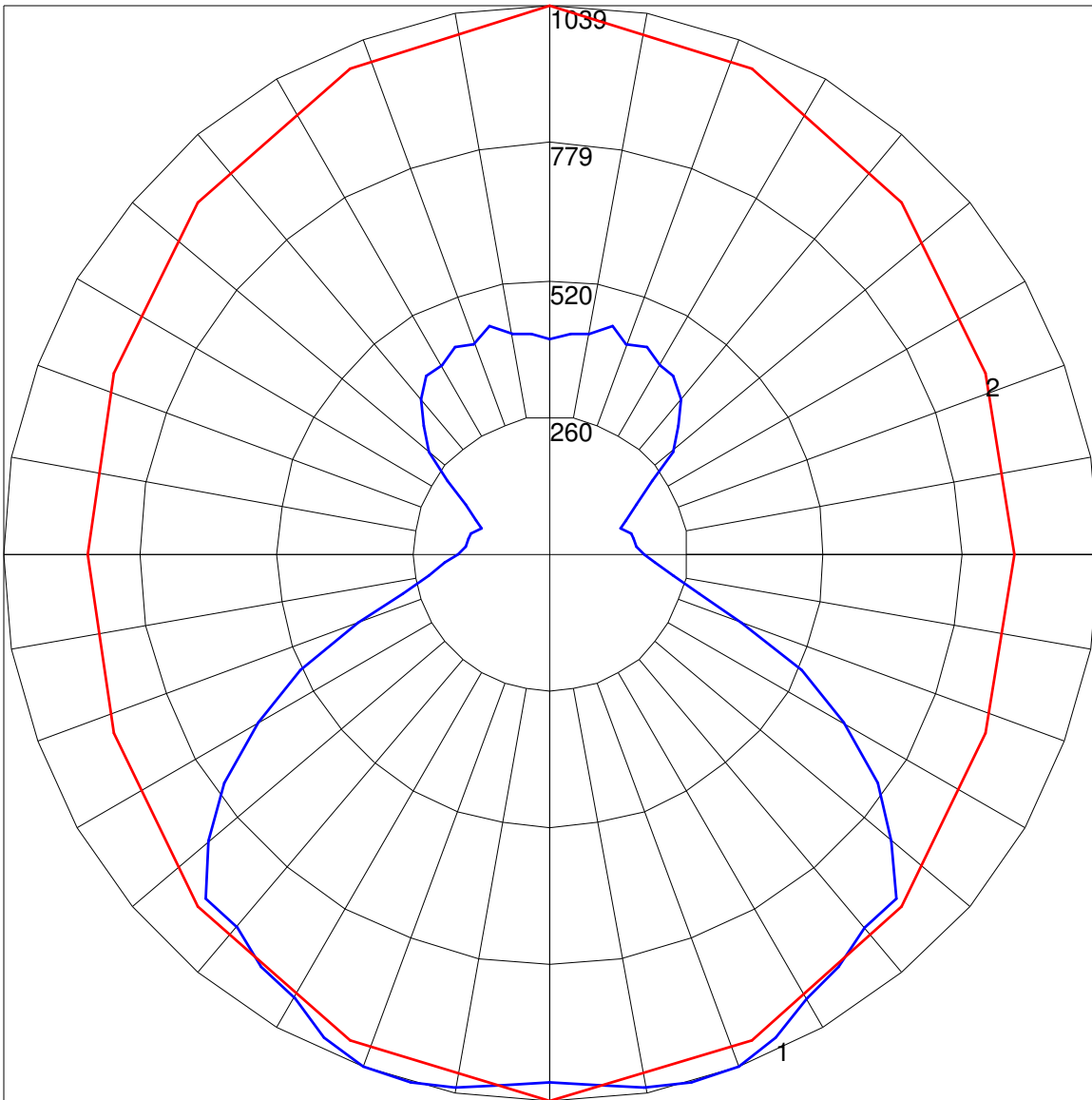
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	76	76	76	76	72	72	72	72	64	64	64	57	57	57	51	51	51	47	47
1	69	66	63	61	65	63	60	58	56	54	52	50	48	47	44	43	42	39	39
2	63	58	53	49	59	55	51	47	49	46	43	44	41	39	39	37	35	33	33
3	58	51	45	41	54	48	43	40	43	39	36	39	36	33	34	32	30	28	28
4	53	45	39	35	50	43	38	34	38	34	31	34	31	28	31	28	26	24	24
5	48	40	34	30	46	38	33	29	34	30	27	31	27	25	28	25	22	21	21
6	45	36	30	26	42	34	29	25	31	27	23	28	24	22	25	22	20	18	18
7	41	33	27	23	39	31	26	22	28	24	21	25	22	19	23	20	18	16	16
8	38	30	24	20	36	28	23	20	26	21	18	23	20	17	21	18	16	14	14
9	36	27	22	18	34	26	21	18	24	19	16	21	18	15	19	16	14	13	13
10	34	25	20	16	32	24	19	16	22	18	15	20	16	14	18	15	13	12	12

POLAR GRAPH



Maximum Candela = 1039 Located At Horizontal Angle = 90, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)