



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4D-4-L8-8TW-X-A.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20195.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 28-DEC-2017
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4-72 LED 24"ARRAYS 4'DIRECT SUSPENDED LUMINAIRE
 [MORE] WHITE REFL w/FROSTED ACRYLIC LENS
 [LUMCAT] MX4D-4-L8-8TW-x-A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3284
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	26.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9473	9046	8708
55	8729	8322	7805
65	7723	7264	6954
75	5942	5700	5656
85	2745	3398	3137

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4D-4-L8-8TW-X-A.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1297.450	1297.450	1297.450	1297.450	1297.450
5	1324.138	1295.397	1287.186	1280.342	1273.499
10	1306.346	1275.552	1265.972	1255.707	1248.180
15	1279.658	1245.443	1227.651	1211.227	1206.437
20	1223.545	1189.329	1179.749	1151.692	1146.902
25	1144.849	1118.161	1108.581	1087.367	1082.577
30	1066.154	1042.203	1029.885	1014.831	1007.303
35	992.248	964.192	944.347	935.451	927.239
40	910.131	888.233	859.492	845.806	834.857
45	804.748	789.693	768.479	755.477	739.738
50	707.576	682.256	678.150	654.200	641.198
55	601.508	586.453	573.451	552.922	537.867
60	503.652	481.754	474.226	455.750	442.748
65	392.109	380.476	368.843	357.209	353.104
70	288.094	277.830	270.302	259.353	264.143
75	184.763	185.448	177.236	177.236	175.867
80	91.013	96.488	93.750	99.225	92.382
85	28.741	34.215	35.584	41.743	32.847
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4D-4-L8-8TW-X-A.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	469.29	N.A.	14.30
0-30	979.33	N.A.	29.80
0-40	1574.4	N.A.	47.90
0-60	2680.47	N.A.	81.60
0-80	3238.7	N.A.	98.60
0-90	3284.01	N.A.	100.00
10-90	3161.52	N.A.	96.30
20-40	1105.11	N.A.	33.70
20-50	1700.12	N.A.	51.80
40-70	1472.75	N.A.	44.80
60-80	558.23	N.A.	17.00
70-80	191.55	N.A.	5.80
80-90	45.30	N.A.	1.40
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	3284.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.48
10-20	346.81
20-30	510.04
30-40	595.07
40-50	595.01
50-60	511.07
60-70	366.68
70-80	191.55
80-90	45.30
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

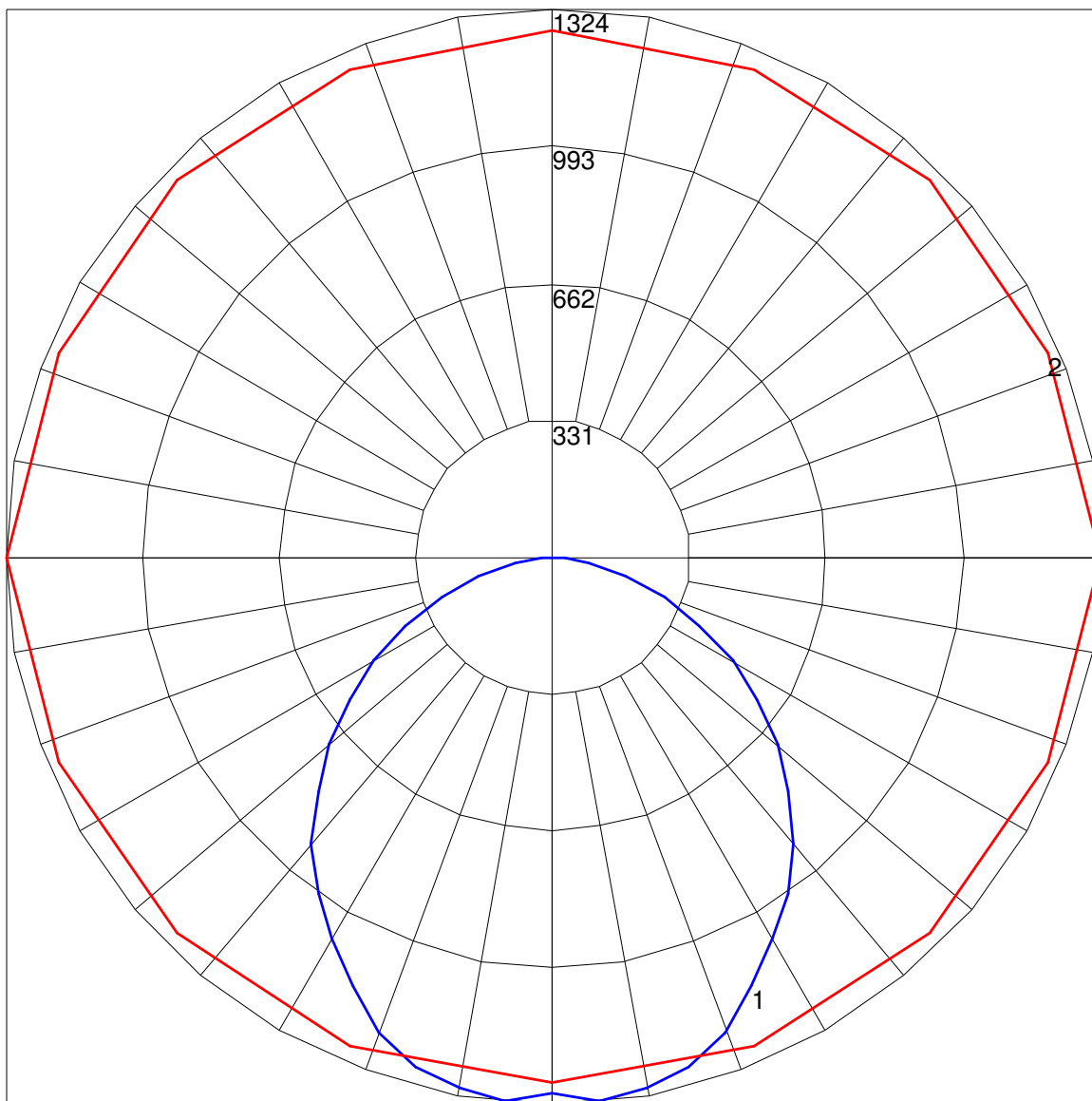
IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4D-4-L8-8TW-X-A.IES

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	100	97	106	102	98	95	98	95	92	94	92	89	90	88	87	85
2	99	91	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	40	34	46	39	34	45	38	34	44	38	33	32
9	57	44	36	31	56	44	36	31	43	35	31	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	38	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1324.138 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.)