



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-8-00-P7-8TW-F-A-POE 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20657.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 13-MAR-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-72 LED 23.75" ARRAYS 8' UPLIGHT LUMINAIRE

[MORE] WHITE ALUM BODY w/WHITE REFL & FLAT FROST LENS

[LUMCAT] MX4U-8-00-P7-8TW-F-PoE 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5792
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 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	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000
95	104.023	101.943	106.103	104.023	110.264
100	220.529	222.609	210.126	220.529	218.448
105	372.402	370.322	370.322	364.081	357.839
110	532.598	524.276	518.035	513.874	503.471
115	705.276	694.874	682.391	661.586	661.586
120	875.874	857.150	838.425	828.023	817.621
125	1031.908	1027.747	1006.943	986.138	975.736
130	1194.184	1192.104	1171.299	1152.575	1146.333
135	1348.138	1352.299	1329.414	1304.448	1296.127
140	1512.494	1504.173	1489.609	1454.242	1454.242
145	1660.207	1649.805	1626.920	1618.598	1599.874
150	1782.954	1795.437	1772.552	1753.828	1745.506
155	1903.621	1914.023	1897.380	1874.495	1872.414
160	2009.724	2018.046	2001.403	1991.000	1980.598
165	2088.782	2099.184	2084.621	2074.219	2067.977
170	2144.954	2155.357	2142.874	2136.632	2136.632
175	2174.081	2186.564	2176.161	2169.920	2161.598
180	2182.403	2182.403	2182.403	2182.403	2182.403

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	504.75	N.A.	8.70
90-120	1178.66	N.A.	20.40
90-130	2079.51	N.A.	35.90
90-150	4125.34	N.A.	71.20
90-180	5791.76	N.A.	100.00
110-180	5287.00	N.A.	91.30
0-180	5791.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	116.46
100-110	388.29
110-120	673.91
120-130	900.84
130-140	1025.17
140-150	1020.67
150-160	872.31
160-170	587.51
170-180	206.60

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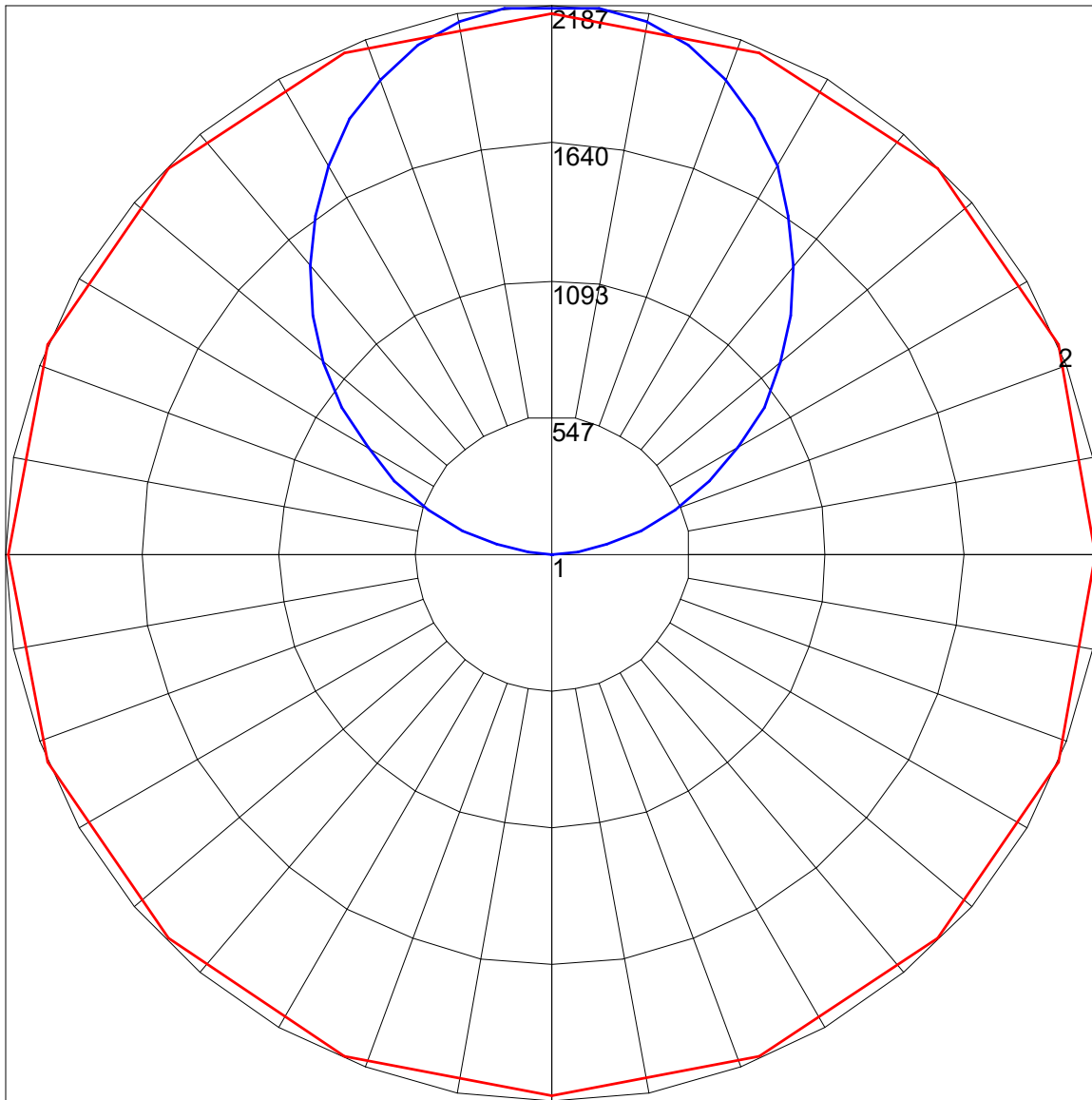
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	95	95	95	81	81	81	81	55	55	55	32	32	32	10	10	10	0
1	86	82	79	75	73	70	67	65	48	46	45	28	27	26	9	9	8	0
2	78	72	66	61	67	61	57	53	42	39	37	24	23	22	8	7	7	0
3	71	63	56	51	61	54	48	44	37	34	31	21	20	18	7	6	6	0
4	65	55	48	43	55	47	42	37	33	29	26	19	17	15	6	6	5	0
5	59	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	46	37	31	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	13	11	10	4	4	3	0
8	46	35	28	23	39	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	36	27	22	18	19	15	13	11	9	8	4	3	2	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

POLAR GRAPH



Maximum Candela = 2186.564 Located At Horizontal Angle = 22.5, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)