



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSX-14-L70-940-ASY-DRV-UNV_TBX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20262.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 14-FEB-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-56 LED 22"ARRAY 1x4'RECESSED LUMINAIRE w/WHITE ASYM REFL

[MORE] FROSTED ACRYLIC INTERIOR LENS & ASYM ACRYLIC BOTTOM LENS

[MORE] ADVANCE #XI095C275V054BSS1 @ 1850mA

[LUMCAT] MDSx-14-L100-940-ASY-DRV-UNV

[LAMPCAT] HLM 90 CRI 4000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Healthcare, Direct

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	62
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.12
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.70
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.68 ft
Luminous Width (90-270)	3.68 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26072	16910	6918
55	4324	10341	4068
65	2652	4331	2795
75	2438	2590	2034
85	1172	1202	481

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	2209.357	2209.357	2209.357	2209.357	2209.357	2209.357	2209.357	2209.357	2209.357
5	2234.429	2248.493	2264.392	2279.680	2265.004	2180.617	2112.740	2040.583	1998.389
10	2129.250	2161.660	2222.199	2270.507	2241.155	2103.567	1976.375	1860.189	1818.607
15	1972.706	2020.403	2115.797	2213.638	2187.955	2006.950	1827.780	1682.854	1625.984
20	1834.506	1856.520	1951.303	2087.057	2095.618	1869.362	1633.322	1481.058	1390.556
25	1858.966	1817.996	1791.090	1924.397	1969.648	1723.824	1426.023	1254.191	1152.070
30	2209.969	2035.691	1687.134	1766.630	1822.888	1551.381	1220.558	1059.122	982.684
35	2995.137	2647.804	1715.263	1577.064	1636.991	1341.636	1024.878	887.901	818.190
40	4103.179	3727.717	1992.274	1363.038	1404.009	1108.042	802.291	719.126	645.746
45	4304.975	4593.604	2792.119	1193.652	1142.286	849.376	637.797	563.193	522.834
50	1086.639	1921.340	3662.898	1118.437	830.420	653.084	524.669	435.390	432.332
55	579.092	733.803	1385.052	1410.124	544.848	496.540	428.663	346.110	351.002
60	380.354	469.634	670.818	1269.478	367.513	362.009	349.168	259.277	256.831
65	261.723	321.039	427.440	631.070	275.787	264.780	264.169	201.796	205.465
70	216.472	220.752	277.010	330.823	229.925	181.616	168.775	168.163	171.221
75	147.372	165.106	156.545	169.386	122.912	116.185	103.344	125.969	122.912
80	79.495	85.610	79.495	70.934	54.424	60.539	62.373	71.546	65.431
85	23.849	14.676	24.460	18.345	9.784	17.122	20.180	18.345	20.791
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	761.83	N.A.	15.10
0-30	1542.61	N.A.	30.60
0-40	2558.61	N.A.	50.80
0-60	4520.21	N.A.	89.70
0-80	5011.23	N.A.	99.40
0-90	5040.06	N.A.	100.00
10-90	4834.03	N.A.	95.90
20-40	1796.77	N.A.	35.60
20-50	3045.86	N.A.	60.40
40-70	2303.74	N.A.	45.70
60-80	491.02	N.A.	9.70
70-80	148.88	N.A.	3.00
80-90	28.84	N.A.	0.60
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	5040.06	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	206.03
10-20	555.80
20-30	780.78
30-40	1015.99
40-50	1249.08
50-60	712.52
60-70	342.14
70-80	148.88
80-90	28.84
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

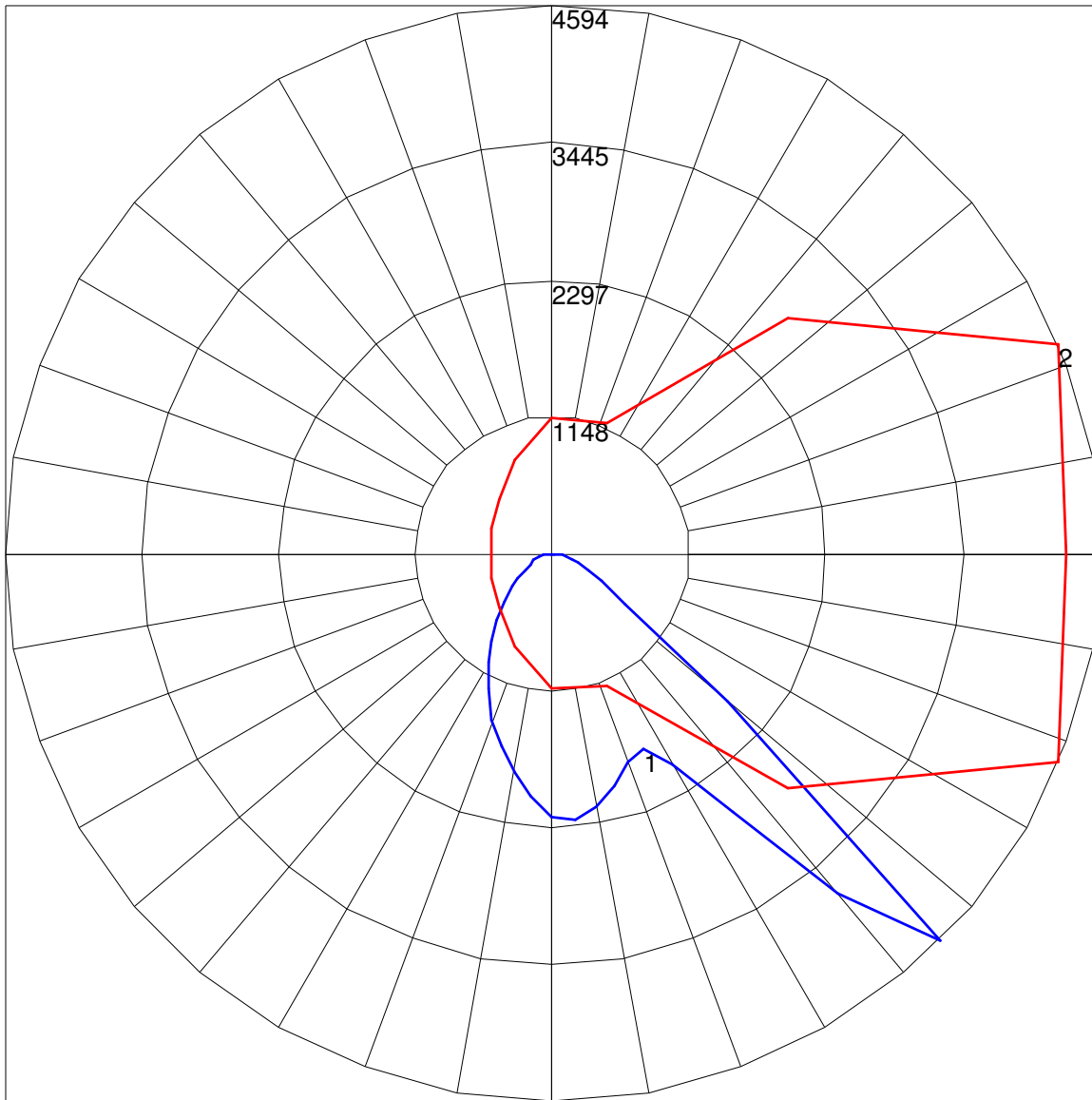
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56
5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 4593.604 Located At Horizontal Angle = 22.5, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)