



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDSG-14-L100-940-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
 [ISSUE DATE] 2-APRIL-2019
 [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] MDSG-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	7274
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	86
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	37629	24405	9985
55	6240	14925	5871
65	3828	6251	4033
75	3519	3738	2935
85	1691	1735	694

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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	3188.663	3188.663	3188.663	3188.663	3188.663	3188.663	3188.663	3188.663	3188.663
5	3224.848	3245.147	3268.093	3290.157	3268.976	3147.183	3049.220	2945.079	2884.183
10	3073.049	3119.824	3207.197	3276.919	3234.556	3035.982	2852.411	2684.726	2624.712
15	2847.115	2915.954	3053.633	3194.841	3157.774	2896.538	2637.950	2428.785	2346.708
20	2647.658	2679.430	2816.226	3012.153	3024.508	2697.964	2357.299	2137.543	2006.925
25	2682.961	2623.829	2584.997	2777.394	2842.703	2487.916	2058.113	1810.116	1662.729
30	3189.546	2938.018	2434.963	2549.695	2630.890	2239.036	1761.575	1528.581	1418.262
35	4322.744	3821.454	2475.561	2276.104	2362.594	1936.321	1479.158	1281.467	1180.856
40	5921.929	5380.042	2875.357	1967.210	2026.341	1599.186	1157.909	1037.882	931.976
45	6213.172	6629.737	4029.736	1722.743	1648.609	1225.866	920.503	812.831	754.583
50	1568.296	2772.981	5286.491	1614.189	1198.507	942.566	757.230	628.378	623.965
55	835.778	1059.063	1998.982	2035.167	786.355	716.633	618.670	499.525	506.585
60	548.948	677.801	968.160	1832.180	530.414	522.471	503.938	374.202	370.672
65	377.733	463.340	616.904	910.794	398.031	382.145	381.263	291.242	296.538
70	312.424	318.602	399.796	477.461	331.840	262.118	243.585	242.702	247.115
75	212.695	238.289	225.934	244.467	177.393	167.685	149.151	181.806	177.393
80	114.732	123.557	114.732	102.376	78.547	87.373	90.020	103.259	94.433
85	34.420	21.181	35.302	26.477	14.121	24.711	29.124	26.477	30.007
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1099.52	N.A.	15.10
0-30	2226.38	N.A.	30.60
0-40	3692.72	N.A.	50.80
0-60	6523.81	N.A.	89.70
0-80	7232.47	N.A.	99.40
0-90	7274.09	N.A.	100.00
10-90	6976.73	N.A.	95.90
20-40	2593.2	N.A.	35.60
20-50	4395.94	N.A.	60.40
40-70	3324.89	N.A.	45.70
60-80	708.67	N.A.	9.70
70-80	214.87	N.A.	3.00
80-90	41.62	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	7274.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	297.35
10-20	802.17
20-30	1126.86
30-40	1466.34
40-50	1802.75
50-60	1028.34
60-70	493.80
70-80	214.87
80-90	41.62
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

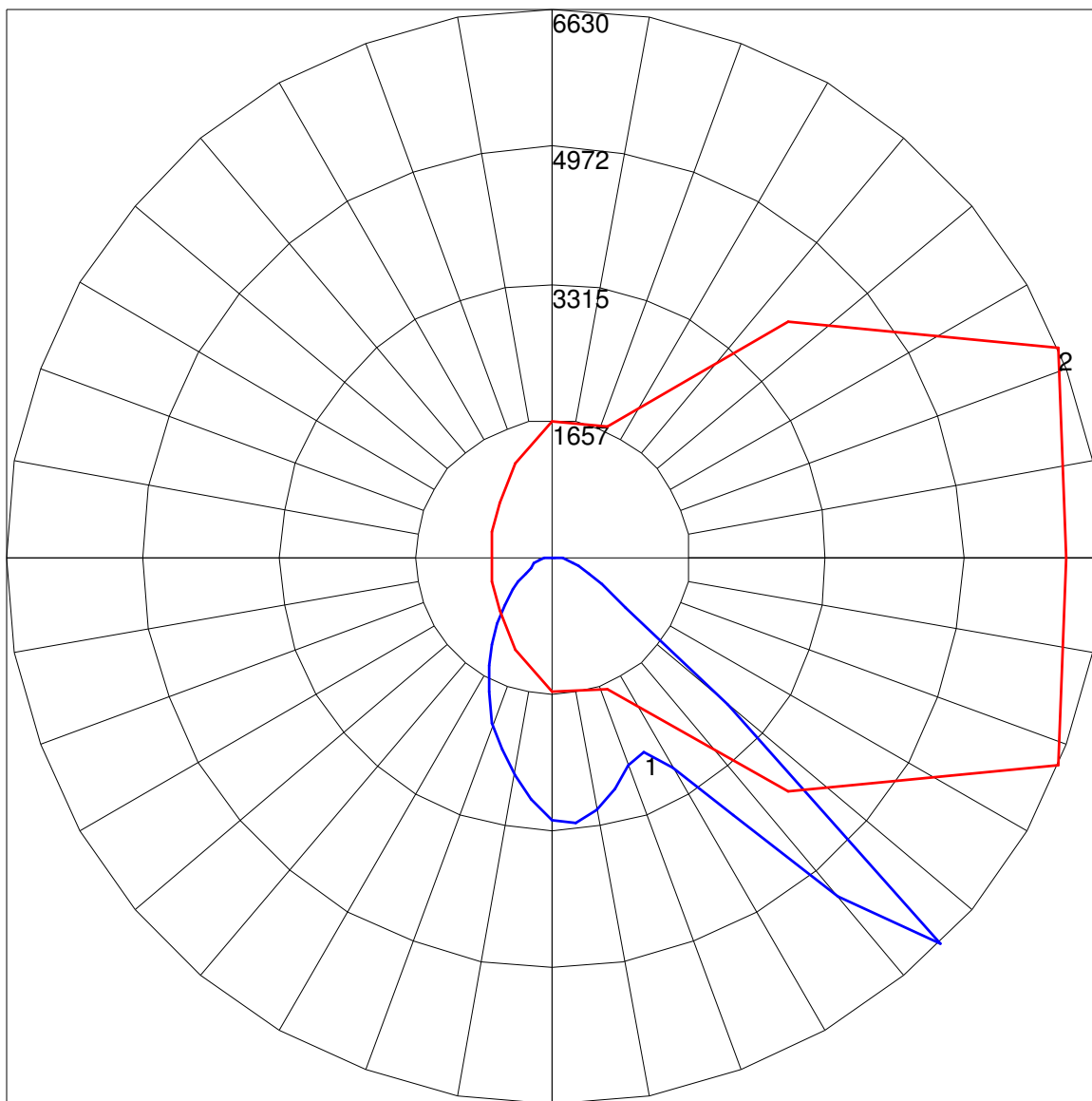
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 6629.737 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.)