H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-940-RD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 21002.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-10-03
[MANUFAC] WILLIAMS INDOOR
[MORE] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE
[MORE] 1.5x24"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS
[MORE] 0-10V REMOTE DRIVER ENCLOSURE
[LUMCAT] SL-8-L5-940-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3477
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	35.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10809	8690	8238
55	10227	7782	7431
65	9140	6699	6613
75	7722	5525	5886
85	4351	4599	5300

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1094.776	1094.776	1094.776	1094.776	1094.776
5	1098.359	1092.984	1085.817	1084.025	1085.817
10	1082.233	1076.858	1069.691	1069.691	1073.274
15	1058.940	1053.565	1046.398	1048.190	1048.190
20	1023.105	1017.729	1008.770	1015.938	1017.729
25	978.310	972.935	971.143	976.518	980.102
30	922.765	922.765	922.765	929.932	928.140
35	863.637	863.637	863.637	870.804	876.179
40	791.965	793.757	795.549	808.091	815.259
45	714.919	720.294	725.670	740.004	745.379
50	630.706	636.081	648.623	670.125	680.875
55	550.076	551.867	575.160	593.078	609.204
60	456.903	465.862	498.114	532.158	542.908
65	363.731	378.065	415.692	453.320	469.446
70	277.725	292.060	338.646	385.232	399.566
75	189.928	215.013	266.975	318.936	340.438
80	111.090	137.967	207.846	259.808	283.101
85	37.627	87.797	152.301	204.263	227.556
90	0.000	48.378	112.882	159.468	177.386
95	0.000	25.085	77.046	123.633	139.759
100	0.000	12.542	53.753	91.381	107.507
105	0.000	7.167	37.627	66.296	80.630
110	0.000	5.375	25.085	48.378	57.337
115	0.000	3.584	16.126	34.044	43.003
120	0.000	0.000	8.959	21.501	26.877
125	0.000	0.000	7.167	14.334	17.918
130	0.000	0.000	0.000	8.959	10.751
135	0.000	0.000	0.000	0.000	7.167
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	399.72	N.A.	11.50
0-30	848.98	N.A.	24.40
0-40	1391.06	N.A.	40.00
0-60	2468.57	N.A.	71.00
0-80	3165.24	N.A.	91.00
0-90	3326.48	N.A.	95.70
10-90	3223.03	N.A.	92.70
20-40	991.34	N.A.	28.50
20-50	1553.69	N.A.	44.70
40-70	1490.99	N.A.	42.90
60-80	696.67	N.A.	20.00
70-80	283.19	N.A.	8.10
80-90	161.24	N.A.	4.60
90-110	123.90	N.A.	3.60
90-120	142.71	N.A.	4.10
90-130	149.44	N.A.	4.30
90-150	150.51	N.A.	4.30
90-180	150.51	N.A.	4.30
110-180	26.61	N.A.	0.80
0-180	3477.00	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.45
10-20	296.27
20-30	449.25
30-40	542.09
40-50	562.35
50-60	515.16
60-70	413.48
70-80	283.19
80-90	161.24
90-100	82.71
100-110	41.19
110-120	18.81
120-130	6.73
130-140	1.07
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	106	101	96	92	103	98	94	90	93	90	86	89	86	83	84	82	80	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	88	76	68	61	85	75	67	60	71	64	59	68	62	57	64	60	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	54	49	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	32	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	29	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	35	28	24	33	28	23	22

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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.0	19.6	18.4	20.0	20.4	19.7	21.3	20.1	21.7	22.1
	3H	19.5	20.9	19.9	21.3	21.8	22.0	23.5	22.5	23.9	24.3
	4H	19.9	21.3	20.4	21.7	22.2	23.1	24.5	23.6	24.9	25.4
	6H	20.2	21.5	20.7	21.9	22.4	24.3	25.6	24.8	26.0	26.5
	8H	20.3	21.5	20.8	22.0	22.5	24.9	26.1	25.4	26.6	27.1
	12H	20.3	21.5	20.8	21.9	22.5	25.6	26.8	26.1	27.2	27.7
4H	2H	18.8	20.2	19.2	20.6	21.0	20.1	21.5	20.6	21.9	22.4
	3H	20.5	21.6	20.9	22.1	22.6	22.7	23.8	23.1	24.3	24.8
	4H	21.0	22.1	21.5	22.6	23.1	23.9	25.0	24.4	25.5	26.0
	6H	21.4	22.4	22.0	22.9	23.4	25.3	26.2	25.8	26.7	27.3
	8H	21.5	22.4	22.1	22.9	23.5	26.0	26.9	26.5	27.4	27.9
	12H	21.6	22.4	22.1	22.9	23.5	26.8	27.6	27.3	28.1	28.7
8H	4H	21.6	22.5	22.1	23.0	23.5	24.1	25.0	24.6	25.5	26.1
	6H	22.1	22.9	22.7	23.4	24.0	25.6	26.4	26.1	26.9	27.5
	8H	22.3	23.0	22.8	23.5	24.1	26.4	27.1	27.0	27.7	28.3
	12H	22.4	23.0	23.0	23.6	24.2	27.4	28.0	28.0	28.5	29.2
12H	4H	21.7	22.5	22.3	23.1	23.6	24.1	24.9	24.7	25.5	26.0
	6H	22.4	23.0	22.9	23.6	24.2	25.6	26.3	26.2	26.9	27.5
	8H	22.6	23.2	23.2	23.7	24.4	26.5	27.1	27.1	27.7	28.3

Maximum UGR = 29.2

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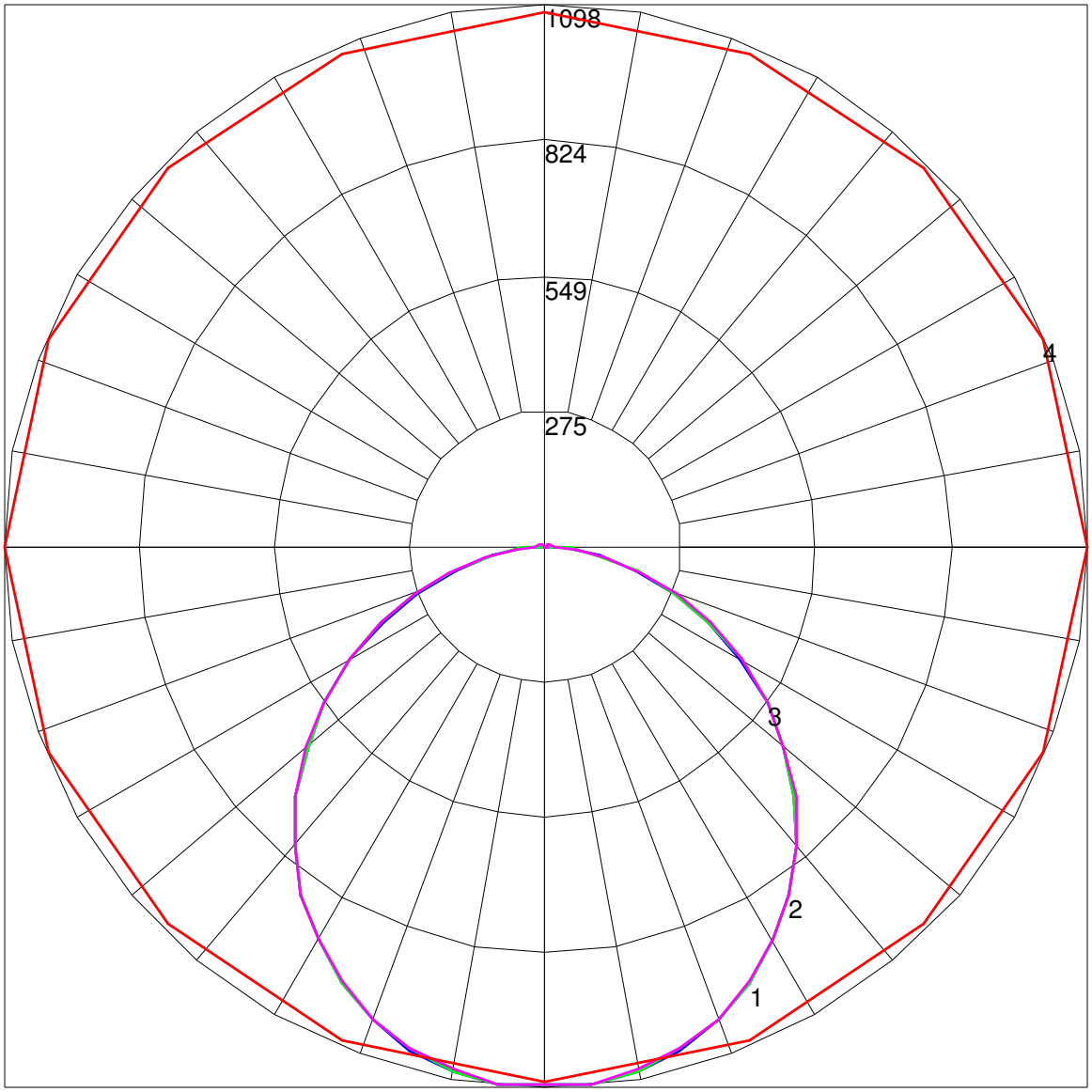
POLAR GRAPH



Maximum Candela = 1098.359 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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