H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L10-930-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-L10-930-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6588
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	70.8
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	20480	16465	15609
55	19378	14745	14080
65	17318	12692	12530
75	14631	10468	11152
85	8243	8713	10042

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2074.290	2074.290	2074.290	2074.290	2074.290
5	2081.080	2070.895	2057.316	2053.921	2057.316
10	2050.526	2040.341	2026.761	2026.761	2033.551
15	2006.392	1996.207	1982.627	1986.022	1986.022
20	1938.494	1928.309	1911.334	1924.914	1928.309
25	1853.621	1843.436	1840.041	1850.226	1857.016
30	1748.379	1748.379	1748.379	1761.958	1758.563
35	1636.347	1636.347	1636.347	1649.926	1660.111
40	1500.550	1503.945	1507.340	1531.104	1544.684
45	1354.569	1364.754	1374.939	1402.098	1412.283
50	1195.008	1205.193	1228.957	1269.696	1290.066
55	1042.237	1045.632	1089.766	1123.715	1154.269
60	865.702	882.677	943.785	1008.288	1028.658
65	689.167	716.326	787.619	858.912	889.466
70	526.211	553.370	641.638	729.906	757.065
75	359.860	407.389	505.842	604.294	645.033
80	210.484	261.408	393.810	492.262	536.396
85	71.293	166.351	288.567	387.020	431.154
90	0.000	91.663	213.879	302.147	336.096
95	0.000	47.529	145.981	234.249	264.803
100	0.000	23.764	101.847	173.140	203.695
105	0.000	13.580	71.293	125.612	152.771
110	0.000	10.185	47.529	91.663	108.637
115	0.000	6.790	30.554	64.503	81.478
120	0.000	0.000	16.975	40.739	50.924
125	0.000	0.000	13.580	27.159	33.949
130	0.000	0.000	0.000	16.975	20.369
135	0.000	0.000	0.000	0.000	13.580
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	757.36	N.A.	11.50
0-30	1608.57	N.A.	24.40
0-40	2635.67	N.A.	40.00
0-60	4677.24	N.A.	71.00
0-80	5997.24	N.A.	91.00
0-90	6302.74	N.A.	95.70
10-90	6106.73	N.A.	92.70
20-40	1878.31	N.A.	28.50
20-50	2943.8	N.A.	44.70
40-70	2825.00	N.A.	42.90
60-80	1320.00	N.A.	20.00
70-80	536.57	N.A.	8.10
80-90	305.51	N.A.	4.60
90-110	234.75	N.A.	3.60
90-120	270.39	N.A.	4.10
90-130	283.15	N.A.	4.30
90-150	285.18	N.A.	4.30
90-180	285.18	N.A.	4.30
110-180	50.43	N.A.	0.80
0-180	6587.92	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	196.01
10-20	561.35
20-30	851.21
30-40	1027.1
40-50	1065.49
50-60	976.08
60-70	783.43
70-80	536.57
80-90	305.51
90-100	156.71
100-110	78.04
110-120	35.64
120-130	12.76
130-140	2.03
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	58	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	20.3	21.9	20.7	22.3	22.7	22.0	23.6	22.4	24.0	24.4
	3H	21.8	23.2	22.2	23.6	24.1	24.3	25.8	24.8	26.2	26.6
	4H	22.2	23.6	22.7	24.0	24.5	25.4	26.8	25.9	27.2	27.7
	6H	22.5	23.8	23.0	24.2	24.7	26.6	27.9	27.1	28.3	28.8
	8H	22.6	23.8	23.1	24.3	24.8	27.2	28.4	27.7	28.9	29.4
	12H	22.6	23.8	23.1	24.2	24.8	27.9	29.1	28.4	29.5	30.0
4H	2H	21.1	22.5	21.5	22.9	23.3	22.4	23.8	22.9	24.2	24.7
	3H	22.8	23.9	23.2	24.4	24.9	25.0	26.1	25.4	26.6	27.1
	4H	23.3	24.4	23.8	24.9	25.4	26.2	27.3	26.7	27.8	28.3
	6H	23.7	24.7	24.3	25.2	25.7	27.6	28.5	28.1	29.0	29.6
	8H	23.8	24.7	24.4	25.2	25.8	28.3	29.2	28.8	29.7	30.2
	12H	23.9	24.7	24.4	25.2	25.8	29.1	29.9	29.6	30.4	31.0
8H	4H	23.9	24.8	24.4	25.3	25.8	26.4	27.3	26.9	27.8	28.4
	6H	24.4	25.2	25.0	25.7	26.3	27.9	28.7	28.4	29.2	29.8
	8H	24.6	25.3	25.1	25.8	26.4	28.7	29.4	29.3	30.0	30.6
	12H	24.7	25.3	25.3	25.9	26.5	29.7	30.3	30.3	30.8	31.5
12H	4H	24.0	24.8	24.6	25.4	25.9	26.4	27.2	27.0	27.8	28.3
	6H	24.7	25.3	25.2	25.9	26.5	27.9	28.6	28.5	29.2	29.8
	8H	24.9	25.5	25.5	26.0	26.7	28.8	29.4	29.4	30.0	30.6

Maximum UGR = 31.5

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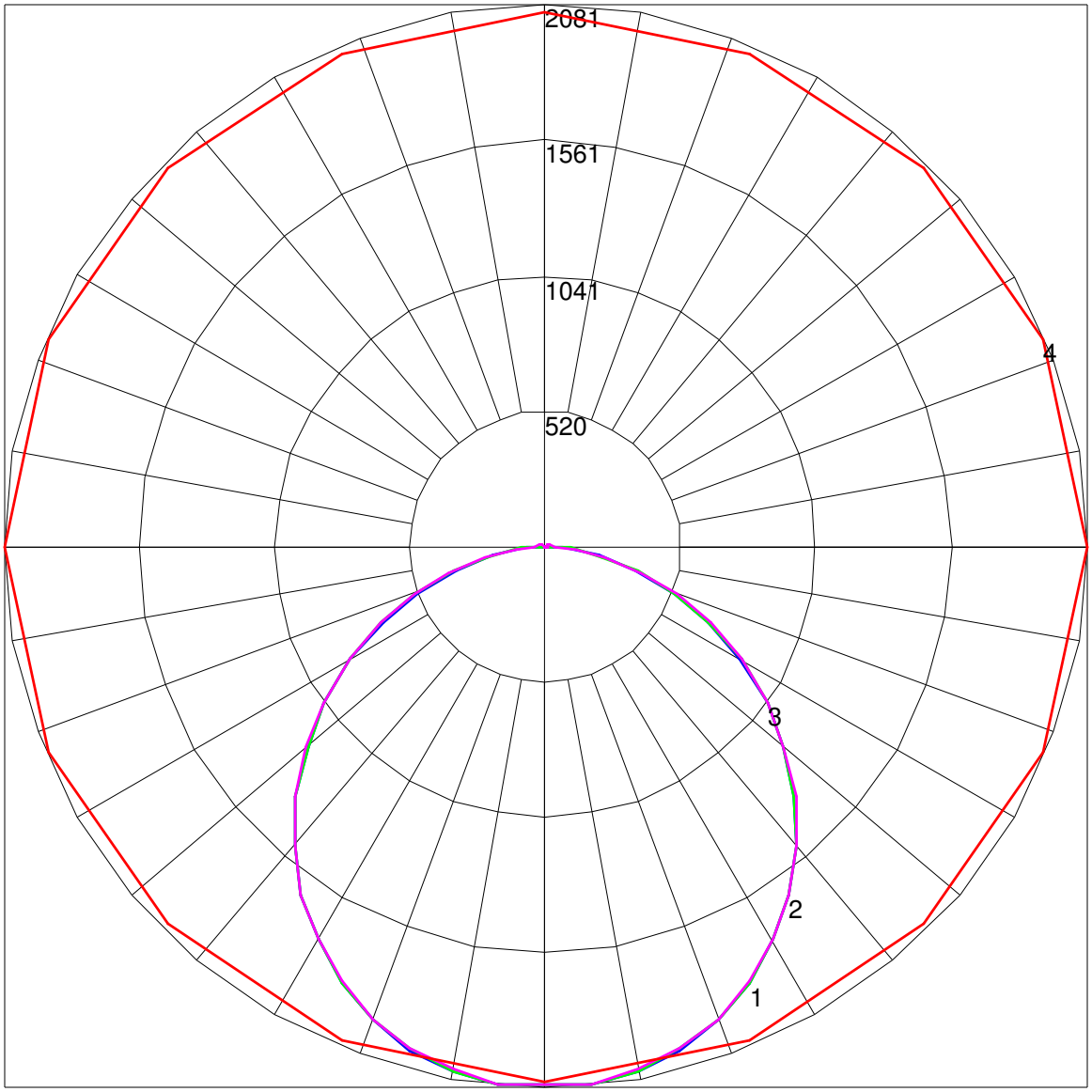
POLAR GRAPH



Maximum Candela = 2081.08 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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