



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-6-L5-840-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] 72 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE

[MORE] 1.5" ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS

[MORE] 0-10V REMOTE DRIVER ENCLOSURE

[LUMCAT] SL-6-L5-840-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3201
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	26.8
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)	6.00 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	13244	10657	10114
55	12521	9541	9123
65	11175	8208	8119
75	9413	6765	7226
85	5231	5624	6507

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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	1008.030	1008.030	1008.030	1008.030	1008.030
5	1011.330	1006.380	999.781	998.131	999.781
10	996.482	991.532	984.933	984.933	988.233
15	975.034	970.085	963.486	965.135	965.135
20	942.038	937.089	928.840	935.439	937.089
25	900.793	895.844	894.194	899.143	902.443
30	849.649	849.649	849.649	856.248	854.598
35	795.206	795.206	795.206	801.805	806.754
40	729.213	730.863	732.513	744.062	750.661
45	658.272	663.221	668.171	681.369	686.318
50	580.731	585.680	597.229	617.027	626.926
55	506.490	508.140	529.587	546.085	560.933
60	420.700	428.949	458.646	489.992	499.891
65	334.910	348.109	382.755	417.400	432.249
70	255.720	268.918	311.813	354.708	367.906
75	174.879	197.976	245.821	293.665	313.463
80	102.288	127.035	191.377	239.222	260.669
85	34.646	80.840	140.233	188.078	209.525
90	0.000	44.545	103.938	146.833	163.331
95	0.000	23.097	70.942	113.836	128.685
100	0.000	11.549	49.494	84.140	98.988
105	0.000	6.599	34.646	61.043	74.241
110	0.000	4.949	23.097	44.545	52.794
115	0.000	3.300	14.848	31.346	39.595
120	0.000	0.000	8.249	19.798	24.747
125	0.000	0.000	6.599	13.198	16.498
130	0.000	0.000	0.000	8.249	9.899
135	0.000	0.000	0.000	0.000	6.599
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	368.05	N.A.	11.50
0-30	781.71	N.A.	24.40
0-40	1280.84	N.A.	40.00
0-60	2272.97	N.A.	71.00
0-80	2914.44	N.A.	91.00
0-90	3062.91	N.A.	95.70
10-90	2967.65	N.A.	92.70
20-40	912.79	N.A.	28.50
20-50	1430.58	N.A.	44.70
40-70	1372.85	N.A.	42.90
60-80	641.47	N.A.	20.00
70-80	260.75	N.A.	8.10
80-90	148.47	N.A.	4.60
90-110	114.08	N.A.	3.60
90-120	131.40	N.A.	4.10
90-130	137.60	N.A.	4.30
90-150	138.59	N.A.	4.30
90-180	138.59	N.A.	4.30
110-180	24.50	N.A.	0.80
0-180	3201.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	95.26
10-20	272.79
20-30	413.66
30-40	499.13
40-50	517.79
50-60	474.34
60-70	380.72
70-80	260.75
80-90	148.47
90-100	76.16
100-110	37.93
110-120	17.32
120-130	6.20
130-140	0.99
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	56	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

X=2H	Y=2H	18.7	20.3	19.1	20.7	21.1	20.4	22.0	20.8	22.4	22.8
	3H	20.2	21.6	20.6	22.0	22.5	22.7	24.2	23.1	24.6	25.0
	4H	20.6	22.0	21.1	22.4	22.9	23.8	25.2	24.3	25.6	26.1
	6H	20.9	22.2	21.4	22.6	23.1	25.0	26.3	25.5	26.7	27.2
	8H	21.0	22.2	21.5	22.7	23.2	25.6	26.8	26.1	27.3	27.8
	12H	21.0	22.2	21.5	22.6	23.2	26.3	27.4	26.7	27.9	28.4

UGR Viewed Endwise

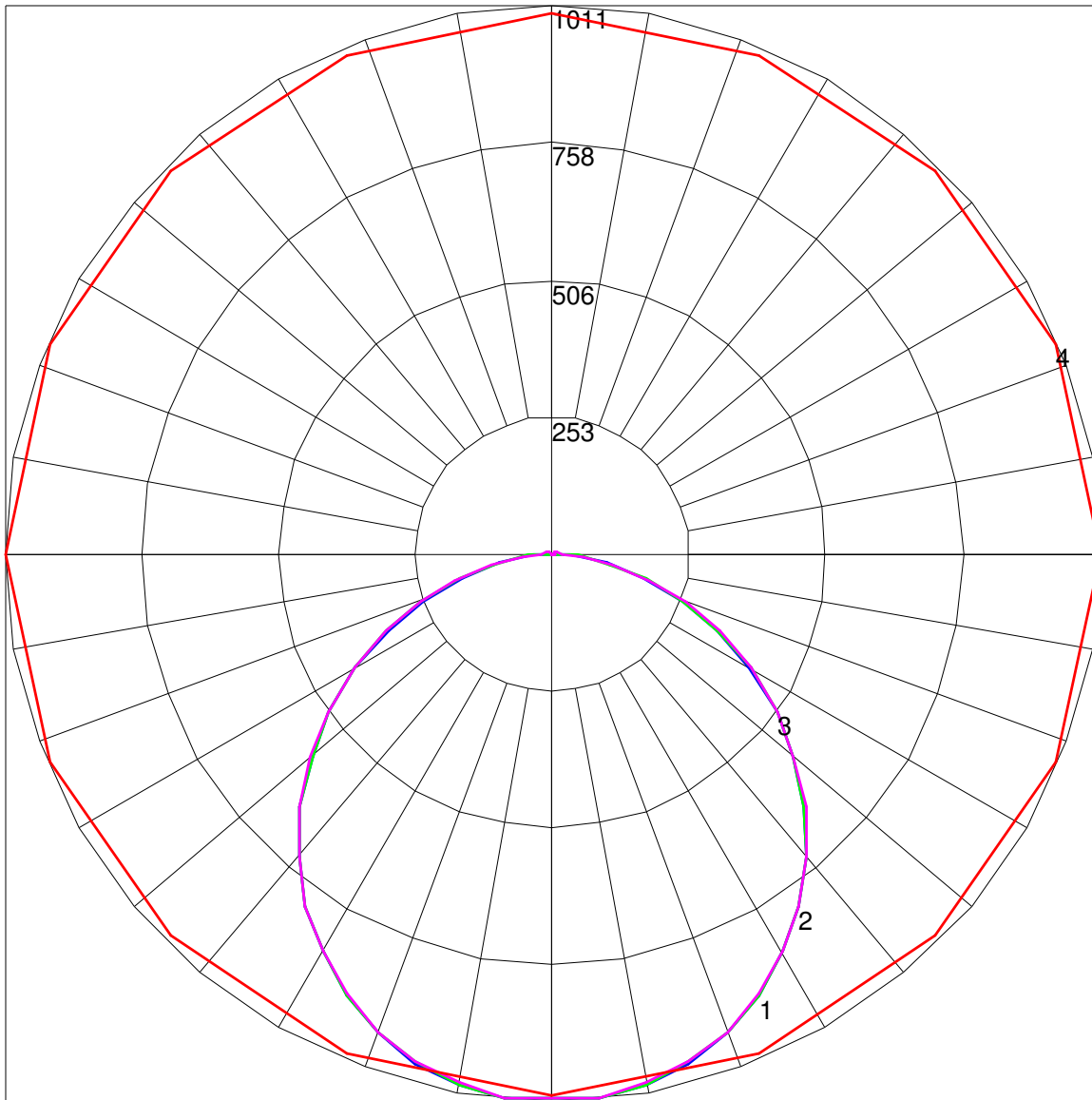
4H	2H	19.5	20.8	19.9	21.3	21.7	20.8	22.2	21.3	22.6	23.1
	3H	21.2	22.3	21.6	22.8	23.3	23.3	24.5	23.8	25.0	25.5
	4H	21.7	22.8	22.2	23.3	23.8	24.6	25.7	25.1	26.2	26.7
	6H	22.1	23.1	22.7	23.6	24.1	26.0	26.9	26.5	27.4	28.0
	8H	22.2	23.1	22.8	23.6	24.2	26.7	27.5	27.2	28.1	28.6
	12H	22.3	23.1	22.8	23.6	24.2	27.4	28.2	28.0	28.8	29.3

8H	4H	22.3	23.2	22.8	23.7	24.2	24.8	25.7	25.3	26.2	26.8
	6H	22.8	23.6	23.4	24.1	24.7	26.3	27.0	26.8	27.6	28.2
	8H	23.0	23.7	23.5	24.2	24.8	27.1	27.8	27.7	28.4	28.9
	12H	23.1	23.7	23.7	24.2	24.9	28.1	28.7	28.6	29.2	29.9

12H	4H	22.4	23.2	23.0	23.8	24.3	24.8	25.6	25.4	26.2	26.7
	6H	23.0	23.7	23.6	24.3	24.9	26.3	27.0	26.9	27.5	28.2
	8H	23.3	23.9	23.9	24.4	25.1	27.2	27.8	27.8	28.4	29.0

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 1011.33 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.)