



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 96-2-L21-835-DCL-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]GEN FROM BALLABS TEST NO. 20011.0  
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
[ISSUE]DATE] 12-10-2021  
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO  
[LUMINAIRE] 1-56 LED 22"ARRAYS 2' VAPORTITE LUMINAIRE  
[MORE] WHITE FLAT REFLECTOR w/DCL LENS  
[MORE] EVERLINE LED DRIVER #D15CC55UNVTW-C @ 1029mA  
[LUMCAT] 96-2-L21/835-DCL-DIM-UNV  
[LAMPCAT] 10560223

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2201
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.25 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.18 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6413	5559	5364
55	5771	4403	4543
65	4805	3806	3567
75	2643	2634	2740
85	729	726	689

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 96-2-L21-835-DCL-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	740.572	740.572	740.572	740.572	740.572
<b>5</b>	737.982	742.838	730.214	721.799	724.712
<b>10</b>	728.272	717.914	729.567	744.132	734.746
<b>15</b>	714.030	716.296	730.862	650.590	656.740
<b>20</b>	693.962	690.402	648.648	702.378	634.406
<b>25</b>	670.658	686.842	679.721	659.005	672.276
<b>30</b>	642.498	707.557	624.048	661.595	615.956
<b>35</b>	605.599	593.299	630.522	640.879	630.845
<b>40</b>	563.521	488.104	599.125	583.265	555.105
<b>45</b>	511.733	480.660	536.979	537.627	537.303
<b>50</b>	447.645	397.798	447.645	474.833	450.234
<b>55</b>	385.175	378.702	379.673	397.798	410.422
<b>60</b>	317.203	337.595	318.174	353.131	340.831
<b>65</b>	248.260	260.883	278.685	286.130	277.391
<b>70</b>	170.578	175.756	211.684	230.134	218.805
<b>75</b>	92.571	114.905	152.775	171.225	172.196
<b>80</b>	38.194	71.533	86.422	79.948	73.798
<b>85</b>	12.623	30.749	29.778	35.604	31.720
<b>90</b>	4.855	11.329	15.860	19.421	21.363
<b>95</b>	4.208	11.329	9.063	11.005	11.329
<b>100</b>	5.179	13.918	9.063	9.063	9.063
<b>105</b>	4.855	4.208	40.136	19.744	11.005
<b>110</b>	4.208	2.589	6.474	46.609	44.667
<b>115</b>	3.560	2.266	2.913	8.092	21.363
<b>120</b>	1.618	1.295	1.942	3.884	5.179
<b>125</b>	1.295	1.295	1.295	1.942	2.266
<b>130</b>	0.000	0.000	1.295	1.942	2.266
<b>135</b>	0.000	0.000	1.295	1.618	2.266
<b>140</b>	0.000	0.000	0.000	1.618	1.942
<b>145</b>	0.000	0.000	0.000	0.000	1.618
<b>150</b>	0.000	0.000	0.000	0.000	1.295
<b>155</b>	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 96-2-L21-835-DCL-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	267.62	N.A.	12.20
0-30	577.58	N.A.	26.20
0-40	962.10	N.A.	43.70
0-60	1703.78	N.A.	77.40
0-80	2119.85	N.A.	96.30
0-90	2160.04	N.A.	98.10
10-90	2090.13	N.A.	95.00
20-40	694.48	N.A.	31.60
20-50	1088.4	N.A.	49.50
40-70	1009.47	N.A.	45.90
60-80	416.08	N.A.	18.90
70-80	148.28	N.A.	6.70
80-90	40.19	N.A.	1.80
90-110	29.47	N.A.	1.30
90-120	38.37	N.A.	1.70
90-130	39.92	N.A.	1.80
90-150	40.85	N.A.	1.90
90-180	40.87	N.A.	1.90
110-180	11.40	N.A.	0.50
0-180	2200.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	69.91
10-20	197.71
20-30	309.96
30-40	384.52
40-50	393.93
50-60	347.76
60-70	267.79
70-80	148.28
80-90	40.19
90-100	12.09
100-110	17.38
110-120	8.90
120-130	1.55
130-140	0.73
140-150	0.20
150-160	0.02
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 96-2-L21-835-DCL-DIM-UNV\_.IES**

**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	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	94	96	93	90	92	90	87	88	86	84	82
2	98	90	83	78	96	88	82	76	84	79	74	81	76	72	77	74	71	68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60	57
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	55	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42
6	70	56	47	41	67	55	47	40	53	46	40	51	45	39	49	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 96-2-L21-835-DCL-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

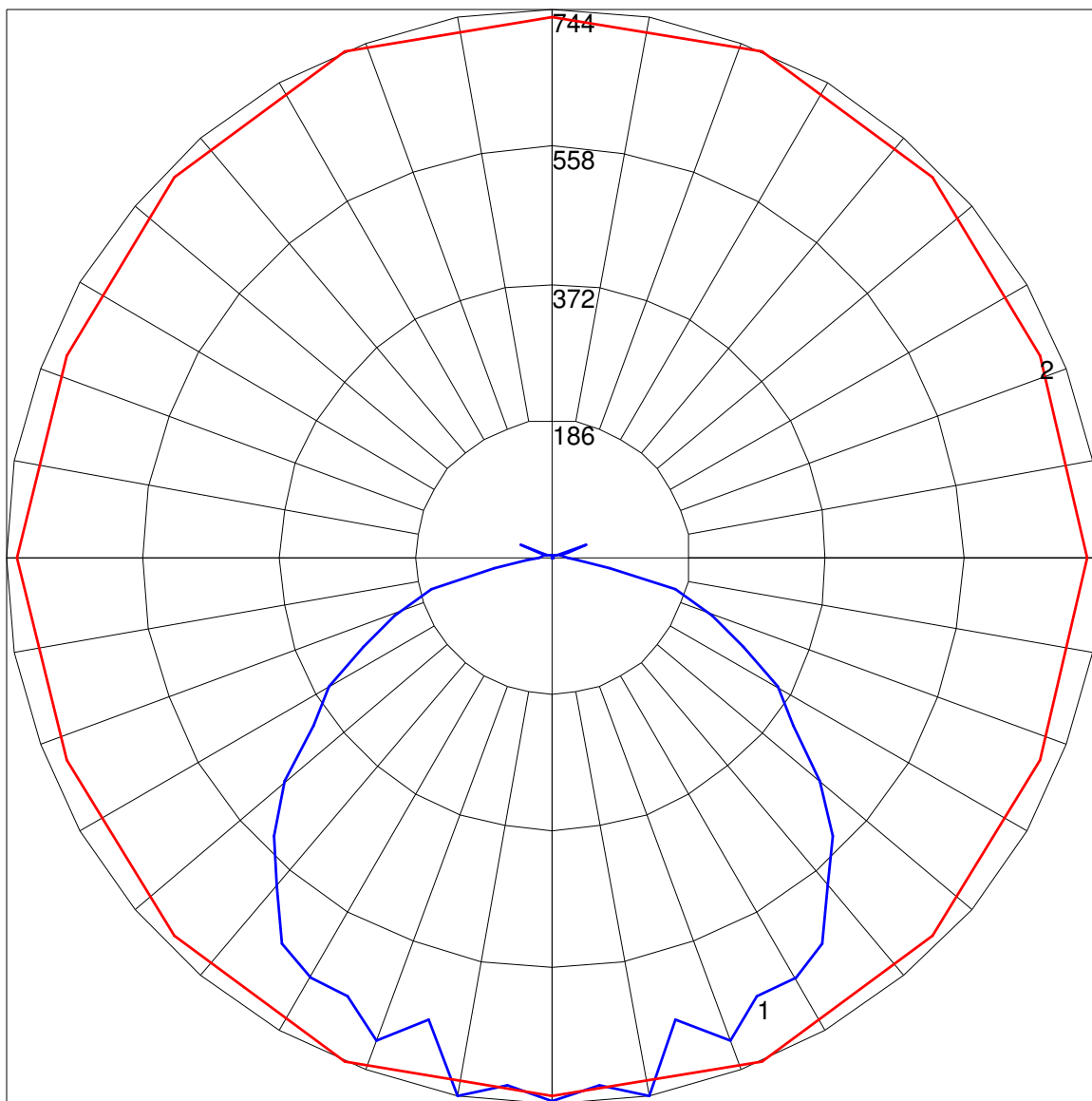
Reflectances

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	16.9	18.5	17.3	18.8	19.2	17.9	19.5	18.3	19.8	20.2
	3H	18.1	19.5	18.5	19.9	20.3	19.7	21.1	20.1	21.5	21.9
	4H	18.4	19.7	18.8	20.1	20.5	20.4	21.8	20.9	22.2	22.6
	6H	18.5	19.7	18.9	20.1	20.6	20.8	22.1	21.3	22.5	22.9
	8H	18.5	19.7	18.9	20.1	20.5	20.9	22.1	21.3	22.5	23.0
	12H	18.5	19.6	18.9	20.0	20.5	20.9	22.1	21.4	22.5	23.0
4H	2H	17.5	18.9	17.9	19.3	19.7	18.3	19.7	18.8	20.1	20.5
	3H	18.9	20.1	19.4	20.5	20.9	20.4	21.5	20.8	21.9	22.4
	4H	19.3	20.3	19.8	20.8	21.3	21.2	22.3	21.7	22.7	23.2
	6H	19.5	20.4	20.0	20.9	21.4	21.7	22.6	22.2	23.1	23.6
	8H	19.5	20.4	20.0	20.8	21.3	21.8	22.6	22.3	23.1	23.6
	12H	19.5	20.3	20.0	20.8	21.3	21.9	22.6	22.4	23.1	23.6
8H	4H	19.7	20.5	20.1	21.0	21.5	21.4	22.2	21.9	22.7	23.2
	6H	19.9	20.6	20.5	21.1	21.7	21.9	22.6	22.4	23.1	23.7
	8H	20.0	20.6	20.5	21.2	21.7	22.0	22.7	22.6	23.2	23.7
	12H	20.0	20.6	20.6	21.1	21.7	22.2	22.7	22.7	23.2	23.8
12H	4H	19.7	20.4	20.2	20.9	21.5	21.4	22.1	21.9	22.7	23.2
	6H	20.0	20.6	20.5	21.1	21.7	21.9	22.6	22.5	23.0	23.6
	8H	20.1	20.6	20.6	21.1	21.8	22.1	22.6	22.6	23.2	23.8

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 744.132 Located At Horizontal Angle = 67.5, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)