



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-2-L65-835-SAF12125-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from BALLABS TEST NO. 18637.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIE, INC  
 [ISSUEDATE] 04-JUN-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 22" LED ARRAYS 2x2' WHITE REFL SURFACE MOUNT LUMINAIRE  
 [MORE] ARRAYS ON INTERNAL WHITE REFLS w/PAT12 LENS (PRISMS DOWN)  
 [LUMCAT] 12-2-L65-835-SAF12125-DIM-UNV  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] INDOOR  
 [ \_SEARCH\_MOUNTING] SURFACE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6628
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	51.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.76 ft
Luminous Width (90-270)	1.77 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7510	7341	7256
55	6276	6035	5931
65	5191	4966	4921
75	4406	4311	4584
85	4579	4641	5389

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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>
<b>0</b>	3028.751	3028.751	3028.751	3028.751	3028.751
<b>5</b>	2957.144	2957.144	2953.209	2951.636	2953.209
<b>10</b>	2909.930	2905.996	2904.422	2905.996	2904.422
<b>15</b>	2768.290	2764.355	2761.208	2761.208	2761.208
<b>20</b>	2696.682	2688.027	2688.027	2685.666	2680.944
<b>25</b>	2470.844	2469.270	2462.188	2459.041	2462.188
<b>30</b>	2250.514	2247.366	2238.711	2233.202	2234.776
<b>35</b>	2030.971	2023.889	2011.299	2005.790	2005.790
<b>40</b>	1790.968	1779.165	1761.853	1746.116	1746.116
<b>45</b>	1539.163	1527.359	1504.539	1487.228	1487.228
<b>50</b>	1275.554	1263.750	1240.930	1223.619	1223.619
<b>55</b>	1043.420	1026.108	1003.289	983.616	985.977
<b>60</b>	824.664	807.352	788.467	775.877	777.450
<b>65</b>	635.810	620.072	608.268	602.760	602.760
<b>70</b>	480.792	468.201	457.972	465.054	472.136
<b>75</b>	330.495	323.413	323.413	333.643	343.872
<b>80</b>	220.330	220.330	220.330	234.494	244.724
<b>85</b>	115.673	115.673	117.247	132.985	136.132
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1066.63	N.A.	16.10
0-30	2202.36	N.A.	33.20
0-40	3459.44	N.A.	52.20
0-60	5527.09	N.A.	83.40
0-80	6499.19	N.A.	98.10
0-90	6627.92	N.A.	100.00
10-90	6346.76	N.A.	95.80
20-40	2392.81	N.A.	36.10
20-50	3554.84	N.A.	53.60
40-70	2682.74	N.A.	40.50
60-80	972.10	N.A.	14.70
70-80	357.01	N.A.	5.40
80-90	128.73	N.A.	1.90
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	6627.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	281.16
10-20	785.47
20-30	1135.73
30-40	1257.08
40-50	1162.03
50-60	905.62
60-70	615.09
70-80	357.01
80-90	128.73
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	187	187	187	187	183	183	183	183	175	175	175	167	167	167	160	160	160	157
1	172	165	159	153	168	162	156	151	155	150	146	149	145	141	143	140	137	134
2	158	146	136	127	154	143	133	126	137	129	123	132	126	120	127	122	117	114
3	145	129	117	108	141	127	116	107	122	113	105	118	110	103	114	107	101	98
4	133	116	103	93	130	114	101	92	110	99	91	106	97	90	103	95	88	85
5	123	104	91	81	120	102	90	80	99	88	80	96	86	79	93	85	78	75
6	114	94	81	71	112	93	80	71	90	79	71	88	78	70	85	76	69	66
7	107	86	73	64	104	85	72	64	83	71	63	80	70	63	78	69	62	59
8	99	79	66	57	97	78	66	57	76	65	57	74	64	57	72	63	56	53
9	93	73	60	52	91	72	60	52	70	59	52	69	59	51	67	58	51	48
10	88	68	56	48	86	67	55	47	65	55	47	64	54	47	62	53	47	44

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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	16.3	17.8	16.6	18.1	18.4	UGR Viewed Endwise	16.0	17.5	16.3	17.8	18.1
	3H	17.8	19.2	18.2	19.5	19.9		17.6	19.0	18.0	19.3	19.6
	4H	18.4	19.7	18.8	20.0	20.4		18.2	19.5	18.6	19.9	20.3
	6H	18.9	20.1	19.3	20.5	20.9		18.8	20.0	19.2	20.4	20.8
	8H	19.1	20.2	19.5	20.6	21.0		19.1	20.2	19.5	20.6	21.0
	12H	19.2	20.4	19.7	20.7	21.2		19.3	20.4	19.7	20.8	21.2

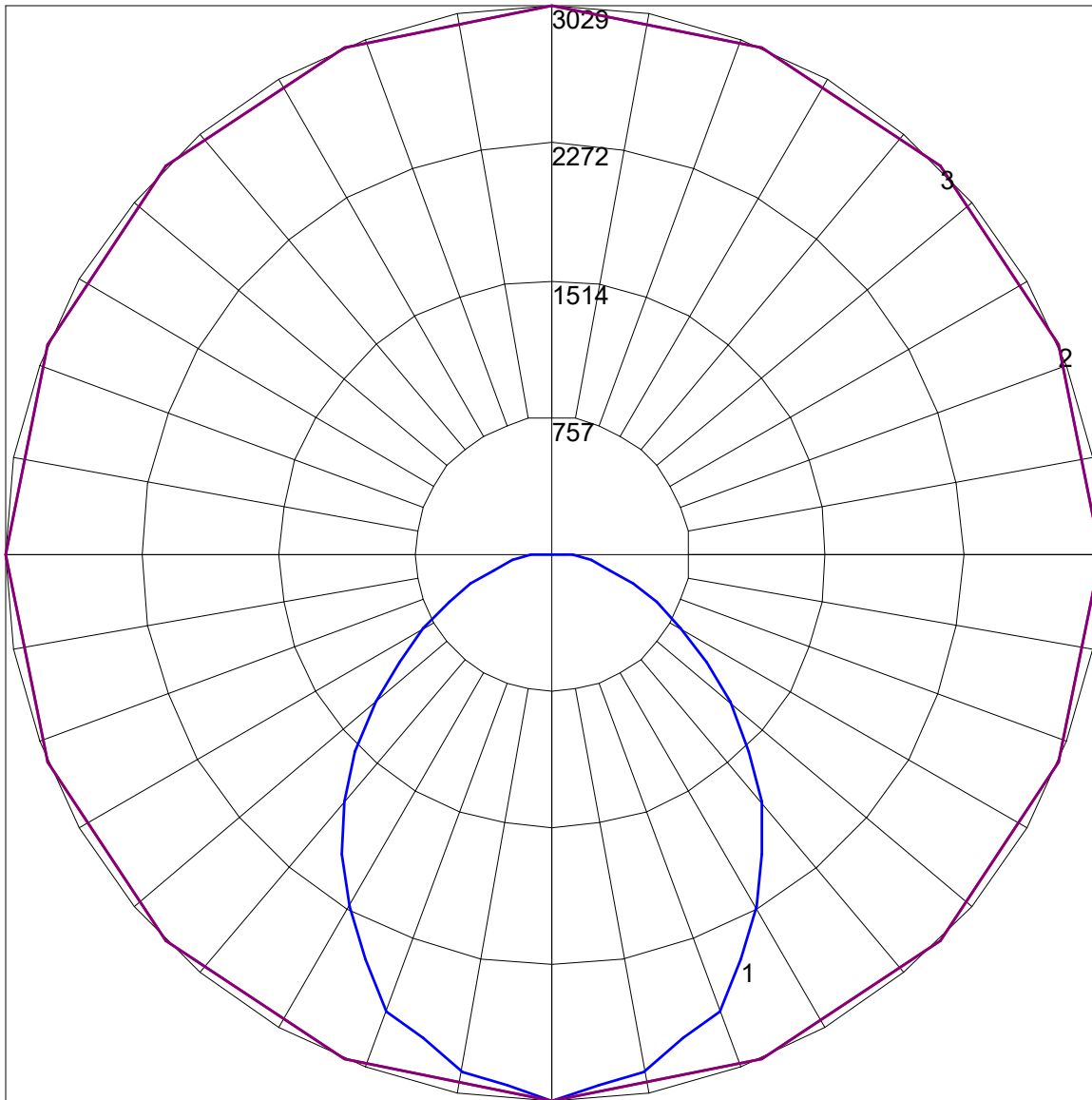
4H	2H	16.7	18.0	17.1	18.4	18.8	16.5	17.8	16.9	18.1	18.5
	3H	18.5	19.6	18.9	20.0	20.4	18.3	19.4	18.7	19.8	20.2
	4H	19.2	20.2	19.7	20.6	21.1	19.1	20.1	19.6	20.5	21.0
	6H	19.9	20.7	20.3	21.2	21.6	19.9	20.8	20.3	21.2	21.7
	8H	20.1	21.0	20.6	21.4	21.9	20.2	21.0	20.7	21.5	21.9
	12H	20.4	21.1	20.9	21.6	22.0	20.5	21.3	21.0	21.7	22.2

8H	4H	19.5	20.3	20.0	20.8	21.2	19.4	20.2	19.9	20.7	21.1
	6H	20.3	21.0	20.8	21.5	22.0	20.4	21.0	20.9	21.5	22.0
	8H	20.7	21.3	21.2	21.8	22.3	20.8	21.4	21.3	21.9	22.4
	12H	21.0	21.5	21.5	22.0	22.6	21.2	21.7	21.7	22.2	22.8

12H	4H	19.5	20.3	20.0	20.8	21.2	19.5	20.2	19.9	20.7	21.1
	6H	20.4	21.0	20.9	21.5	22.0	20.4	21.0	21.0	21.5	22.0
	8H	20.8	21.4	21.3	21.8	22.4	20.9	21.5	21.4	21.9	22.5

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 3028.751 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)  
# 3 - Horizontal Cone Through Vertical Angle (0)