



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 11-4-L65-835-SAF12125-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18638.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 04-JUN-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 22" LED ARRAYS 1x4' SURFACE MNT LUMINAIRE w/WHITE REFL

[MORE] ARRAYS ON INTERNAL WHITE REFLS w/PAT12 LENS (PRISMS DOWN)

[LUMCAT] 11-4-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	6527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	57
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)	3.80 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8264	7804	7428
55	6670	6118	5662
65	5470	4917	4678
75	4572	4289	4466
85	4737	4737	5316

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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>	3023.124	3023.124	3023.124	3023.124	3023.124
<b>5</b>	3003.145	3001.896	2996.902	2996.902	2996.902
<b>10</b>	2949.451	2946.953	2943.207	2943.207	2941.958
<b>15</b>	2808.346	2807.098	2803.352	2799.605	2795.859
<b>20</b>	2747.160	2742.165	2727.180	2720.937	2718.439
<b>25</b>	2493.672	2484.931	2467.449	2454.962	2448.718
<b>30</b>	2285.137	2272.650	2245.179	2221.453	2206.469
<b>35</b>	2077.852	2060.370	2024.157	1987.945	1970.463
<b>40</b>	1815.623	1793.146	1745.695	1692.001	1680.762
<b>45</b>	1590.855	1563.384	1502.197	1442.259	1429.772
<b>50</b>	1298.657	1269.937	1209.999	1152.558	1135.076
<b>55</b>	1041.423	1011.454	955.262	902.817	884.086
<b>60</b>	810.412	780.443	732.992	690.536	680.546
<b>65</b>	629.349	605.624	565.665	541.940	538.194
<b>70</b>	463.271	445.789	420.815	417.069	420.815
<b>75</b>	322.167	313.426	302.188	309.680	314.675
<b>80</b>	216.027	211.032	209.783	221.021	224.768
<b>85</b>	112.384	111.135	112.384	126.120	126.120
<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	1081.64	N.A.	16.60
0-30	2223.86	N.A.	34.10
0-40	3481.53	N.A.	53.30
0-60	5495.96	N.A.	84.20
0-80	6404.38	N.A.	98.10
0-90	6526.9	N.A.	100.00
10-90	6242.28	N.A.	95.60
20-40	2399.89	N.A.	36.80
20-50	3550.51	N.A.	54.40
40-70	2587.93	N.A.	39.70
60-80	908.41	N.A.	13.90
70-80	334.91	N.A.	5.10
80-90	122.52	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	6526.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	284.62
10-20	797.02
20-30	1142.23
30-40	1257.67
40-50	1150.62
50-60	863.81
60-70	573.50
70-80	334.91
80-90	122.52
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	152	152	152	152	149	149	149	149	142	142	142	136	136	136	131	131	131	128
1	140	135	130	125	137	132	127	123	126	123	119	121	118	115	117	114	112	109
2	129	119	111	104	125	117	109	103	112	106	101	108	103	98	104	100	96	93
3	118	106	96	88	115	104	95	88	100	92	86	97	90	85	93	88	83	81
4	109	95	84	76	106	93	83	76	90	81	75	87	80	74	84	78	73	70
5	101	85	75	67	98	84	74	66	81	73	66	79	71	65	77	70	64	62
6	94	78	67	59	91	76	66	59	74	65	58	72	64	58	70	63	57	55
7	87	71	60	53	85	70	60	53	68	59	52	66	58	52	64	57	51	49
8	81	65	55	48	80	64	54	47	63	54	47	61	53	47	59	52	47	44
9	76	60	50	43	75	59	50	43	58	49	43	56	48	43	55	48	42	40
10	72	56	46	39	70	55	46	39	54	45	39	53	45	39	51	44	39	37

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**UGR TABLE - CORRECTED**

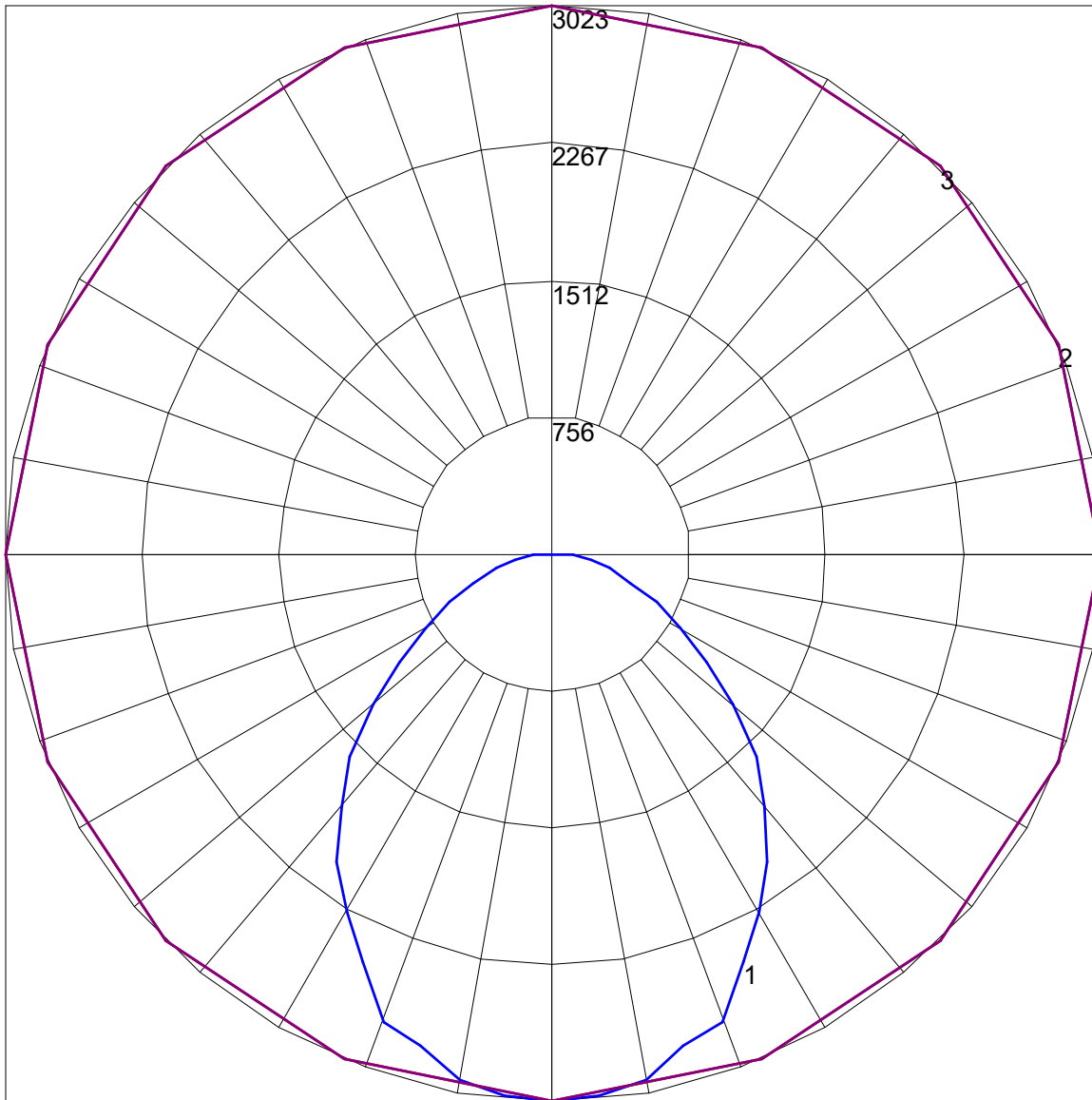
Reflectances

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	17.2	18.7	17.5	19.0	19.3	16.3	17.8	16.6	18.1	18.4
	3H	18.7	20.0	19.0	20.4	20.7	17.9	19.2	18.2	19.6	19.9
	4H	19.2	20.5	19.6	20.9	21.3	18.5	19.8	18.9	20.2	20.6
	6H	19.7	20.9	20.2	21.3	21.7	19.2	20.4	19.6	20.7	21.1
	8H	20.0	21.1	20.4	21.5	21.9	19.5	20.6	19.9	21.0	21.4
	12H	20.1	21.2	20.5	21.6	22.0	19.7	20.8	20.1	21.2	21.6
4H	2H	17.6	18.9	18.0	19.2	19.6	16.8	18.1	17.2	18.5	18.9
	3H	19.3	20.4	19.7	20.8	21.2	18.7	19.7	19.1	20.1	20.5
	4H	20.0	21.0	20.5	21.4	21.9	19.5	20.5	19.9	20.9	21.3
	6H	20.7	21.5	21.2	22.0	22.4	20.3	21.1	20.7	21.6	22.0
	8H	21.0	21.8	21.4	22.2	22.7	20.6	21.4	21.1	21.9	22.3
	12H	21.2	21.9	21.7	22.4	22.9	21.0	21.7	21.4	22.1	22.6
8H	4H	20.3	21.1	20.8	21.5	22.0	19.8	20.6	20.3	21.0	21.5
	6H	21.1	21.8	21.6	22.2	22.7	20.8	21.4	21.3	21.9	22.4
	8H	21.5	22.1	22.0	22.6	23.0	21.2	21.8	21.7	22.3	22.8
	12H	21.8	22.3	22.3	22.8	23.4	21.7	22.2	22.2	22.7	23.3
12H	4H	20.3	21.0	20.8	21.5	22.0	19.9	20.6	20.3	21.0	21.5
	6H	21.2	21.8	21.7	22.2	22.8	20.9	21.5	21.4	21.9	22.5
	8H	21.6	22.1	22.1	22.6	23.2	21.4	21.9	21.9	22.4	23.0

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 3023.124 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)