



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 11-2-L33-835-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 1x2' SURFACE MNT LUMINAIRE w/WHITE REFL

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

[LUMCAT] 11-2-L33-835-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	3387
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	30
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)	1.80 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	9062	8557	8144
55	7313	6708	6208
65	5998	5391	5129
75	5014	4703	4897
85	5194	5194	5828

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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>	1568.763	1568.763	1568.763	1568.763	1568.763
<b>5</b>	1558.396	1557.748	1555.156	1555.156	1555.156
<b>10</b>	1530.533	1529.237	1527.293	1527.293	1526.645
<b>15</b>	1457.311	1456.663	1454.719	1452.775	1450.831
<b>20</b>	1425.559	1422.968	1415.192	1411.952	1410.656
<b>25</b>	1294.019	1289.483	1280.412	1273.932	1270.692
<b>30</b>	1185.806	1179.326	1165.071	1152.759	1144.983
<b>35</b>	1078.241	1069.170	1050.378	1031.587	1022.515
<b>40</b>	942.165	930.502	905.878	878.015	872.183
<b>45</b>	825.529	811.273	779.522	748.419	741.939
<b>50</b>	673.901	658.997	627.894	598.087	589.015
<b>55</b>	540.417	524.865	495.706	468.491	458.771
<b>60</b>	420.540	404.988	380.365	358.334	353.150
<b>65</b>	326.583	314.271	293.536	281.224	279.280
<b>70</b>	240.401	231.329	218.370	216.426	218.370
<b>75</b>	167.179	162.643	156.812	160.699	163.291
<b>80</b>	112.101	109.509	108.861	114.693	116.637
<b>85</b>	58.318	57.670	58.318	65.446	65.446
<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	561.28	N.A.	16.60
0-30	1154.01	N.A.	34.10
0-40	1806.64	N.A.	53.30
0-60	2851.97	N.A.	84.20
0-80	3323.37	N.A.	98.10
0-90	3386.95	N.A.	100.00
10-90	3239.25	N.A.	95.60
20-40	1245.36	N.A.	36.80
20-50	1842.44	N.A.	54.40
40-70	1342.93	N.A.	39.70
60-80	471.40	N.A.	13.90
70-80	173.79	N.A.	5.10
80-90	63.58	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	3386.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	147.69
10-20	413.59
20-30	592.73
30-40	652.63
40-50	597.08
50-60	448.25
60-70	297.60
70-80	173.79
80-90	63.58
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	158	158	158	158	154	154	154	154	147	147	147	141	141	141	135	135	135	133
1	145	139	134	129	142	136	132	127	131	127	123	126	123	120	121	118	116	113
2	133	123	115	108	130	121	113	107	116	110	104	112	107	102	108	103	100	97
3	123	110	100	92	119	108	98	91	104	96	89	100	93	88	97	91	86	83
4	113	98	87	79	110	96	86	78	93	84	77	90	83	76	87	81	75	73
5	105	89	77	69	102	87	77	69	84	75	68	82	74	67	79	72	67	64
6	97	80	69	61	95	79	69	61	77	67	60	75	66	60	73	65	59	57
7	90	73	62	55	88	72	62	54	70	61	54	68	60	54	67	59	53	51
8	84	67	57	49	82	66	56	49	65	55	49	63	55	49	62	54	48	46
9	79	62	52	45	77	61	51	45	60	51	44	58	50	44	57	50	44	42
10	74	58	48	41	73	57	47	41	56	47	41	54	46	40	53	46	40	38

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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	17.4	18.9	17.7	19.2	19.5	16.5	18.0	16.8	18.3	18.6
	3H	18.9	20.2	19.2	20.6	20.9	18.1	19.4	18.4	19.8	20.1
	4H	19.4	20.7	19.8	21.1	21.5	18.7	20.0	19.1	20.4	20.8
	6H	19.9	21.1	20.4	21.5	21.9	19.4	20.6	19.8	20.9	21.3
	8H	20.2	21.3	20.6	21.7	22.1	19.7	20.8	20.1	21.2	21.6
	12H	20.3	21.4	20.7	21.8	22.2	19.9	21.0	20.3	21.4	21.8

UGR Viewed Endwise

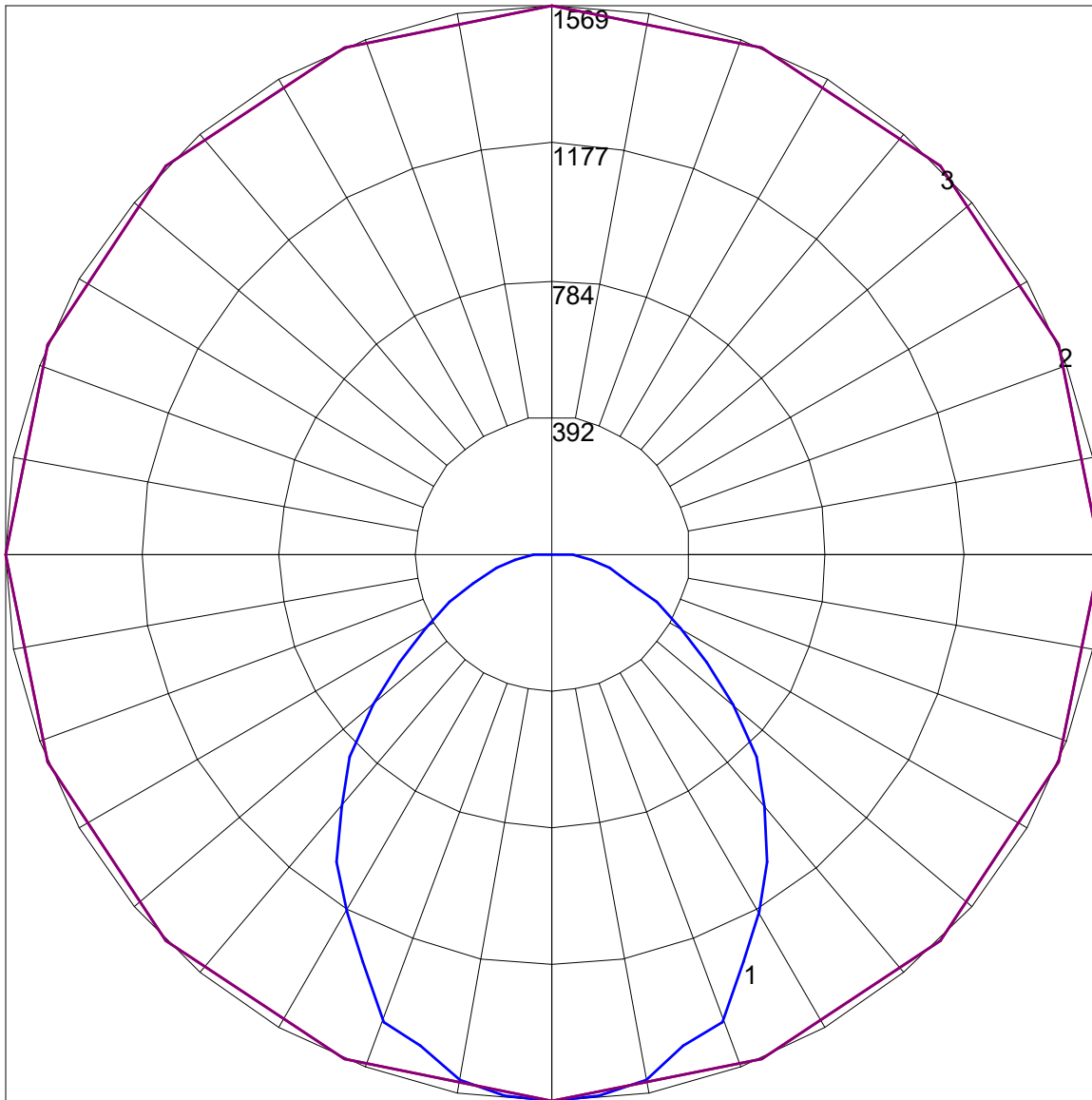
4H	2H	17.8	19.1	18.2	19.4	19.8	17.0	18.3	17.4	18.7	19.1
	3H	19.5	20.6	19.9	21.0	21.4	18.9	19.9	19.3	20.3	20.7
	4H	20.2	21.2	20.7	21.6	22.1	19.7	20.7	20.1	21.1	21.5
	6H	20.9	21.7	21.4	22.2	22.6	20.5	21.3	20.9	21.8	22.2
	8H	21.2	22.0	21.6	22.4	22.9	20.8	21.6	21.3	22.1	22.5
	12H	21.4	22.1	21.9	22.6	23.0	21.2	21.9	21.6	22.3	22.8

8H	4H	20.5	21.3	21.0	21.7	22.2	20.0	20.8	20.5	21.2	21.7
	6H	21.3	22.0	21.8	22.4	22.9	21.0	21.6	21.5	22.1	22.6
	8H	21.7	22.2	22.2	22.8	23.2	21.4	22.0	21.9	22.5	23.0
	12H	22.0	22.5	22.5	23.0	23.6	21.9	22.4	22.4	22.9	23.5

12H	4H	20.5	21.2	21.0	21.7	22.2	20.1	20.8	20.5	21.2	21.7
	6H	21.4	22.0	21.9	22.4	23.0	21.1	21.7	21.6	22.1	22.7
	8H	21.8	22.3	22.3	22.8	23.4	21.6	22.1	22.1	22.6	23.2

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 1568.763 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)