



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 11-2-L26-835-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-L26-835-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	2555
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	20.5
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	6836	6455	6144
55	5517	5060	4683
65	4525	4067	3869
75	3782	3547	3694
85	3918	3918	4397

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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	1183.404	1183.404	1183.404	1183.404	1183.404
5	1175.583	1175.095	1173.139	1173.139	1173.139
10	1154.565	1153.587	1152.121	1152.121	1151.632
15	1099.329	1098.841	1097.374	1095.908	1094.441
20	1075.378	1073.423	1067.557	1065.113	1064.135
25	976.150	972.728	965.885	960.997	958.553
30	894.519	889.631	878.877	869.590	863.724
35	813.377	806.533	792.358	778.182	771.339
40	710.727	701.928	683.354	662.335	657.936
45	622.742	611.988	588.036	564.573	559.685
50	508.360	497.118	473.655	451.170	444.327
55	407.666	395.935	373.938	353.408	346.076
60	317.236	305.505	286.930	270.311	266.400
65	246.359	237.072	221.430	212.143	210.676
70	181.348	174.504	164.728	163.262	164.728
75	126.112	122.691	118.292	121.224	123.180
80	84.564	82.609	82.120	86.519	87.985
85	43.993	43.504	43.993	49.370	49.370
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	423.41	N.A.	16.60
0-30	870.53	N.A.	34.10
0-40	1362.85	N.A.	53.30
0-60	2151.4	N.A.	84.20
0-80	2507.00	N.A.	98.10
0-90	2554.96	N.A.	100.00
10-90	2443.55	N.A.	95.60
20-40	939.44	N.A.	36.80
20-50	1389.85	N.A.	54.40
40-70	1013.05	N.A.	39.70
60-80	355.60	N.A.	13.90
70-80	131.10	N.A.	5.10
80-90	47.96	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	2554.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	111.41
10-20	311.99
20-30	447.13
30-40	492.31
40-50	450.41
50-60	338.14
60-70	224.50
70-80	131.10
80-90	47.96
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	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50
1	55	53	51	49	54	52	50	48	49	48	47	48	46	45	46	45	44	43
2	50	47	43	41	49	46	43	40	44	41	39	42	40	38	41	39	38	37
3	46	41	38	35	45	41	37	34	39	36	34	38	35	33	37	34	33	32
4	43	37	33	30	42	36	33	30	35	32	29	34	31	29	33	31	28	27
5	40	33	29	26	38	33	29	26	32	28	26	31	28	25	30	27	25	24
6	37	30	26	23	36	30	26	23	29	25	23	28	25	23	27	25	22	21
7	34	28	24	21	33	27	23	21	27	23	20	26	23	20	25	22	20	19
8	32	25	21	19	31	25	21	19	24	21	18	24	21	18	23	20	18	17
9	30	23	20	17	29	23	19	17	23	19	17	22	19	17	22	19	17	16
10	28	22	18	15	27	22	18	15	21	18	15	21	17	15	20	17	15	14

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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	17.2	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

UGR Viewed Endwise

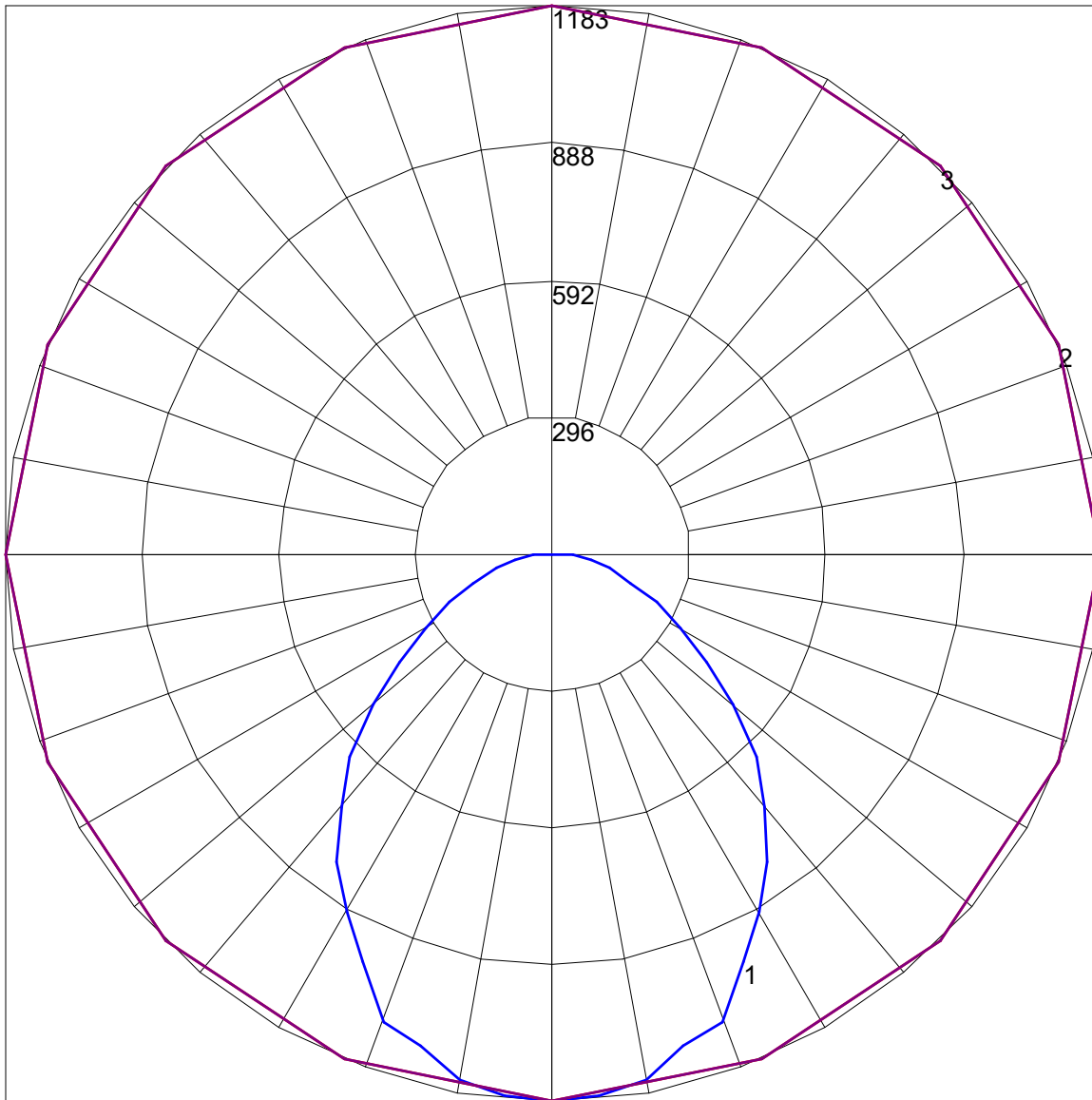
4H	2H	17.6	18.9	18.0	19.2	19.6	16.8	18.1	17.2	18.5	18.9
	3H	19.3	20.4	19.7	20.8	21.2	18.7	19.7	19.1	20.1	20.5
	4H	20.0	21.0	20.5	21.4	21.9	19.5	20.5	19.9	20.9	21.3
	6H	20.7	21.5	21.2	22.0	22.4	20.3	21.1	20.7	21.6	22.0
	8H	21.0	21.8	21.4	22.2	22.7	20.6	21.4	21.1	21.9	22.3
	12H	21.2	21.9	21.7	22.4	22.9	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 = 1183.404 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)