



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-2-L43-835-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-L43-835-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	4214
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	31.2
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	4775	4667	4614
55	3990	3837	3771
65	3300	3157	3129
75	2801	2741	2914
85	2911	2951	3426

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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	1925.642	1925.642	1925.642	1925.642	1925.642
5	1880.115	1880.115	1877.614	1876.613	1877.614
10	1850.097	1847.596	1846.595	1847.596	1846.595
15	1760.044	1757.543	1755.541	1755.541	1755.541
20	1714.517	1709.014	1709.014	1707.513	1704.511
25	1570.932	1569.931	1565.429	1563.427	1565.429
30	1430.849	1428.848	1423.344	1419.842	1420.843
35	1291.266	1286.763	1278.759	1275.256	1275.256
40	1138.675	1131.171	1120.164	1110.159	1110.159
45	978.580	971.076	956.567	945.561	945.561
50	810.981	803.477	788.968	777.961	777.961
55	663.394	652.387	637.878	625.371	626.872
60	524.311	513.304	501.297	493.293	494.293
65	404.240	394.234	386.729	383.227	383.227
70	305.681	297.677	291.173	295.675	300.178
75	210.125	205.622	205.622	212.126	218.630
80	140.083	140.083	140.083	149.088	155.592
85	73.544	73.544	74.544	84.550	86.551
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	678.15	N.A.	16.10
0-30	1400.23	N.A.	33.20
0-40	2199.47	N.A.	52.20
0-60	3514.06	N.A.	83.40
0-80	4132.1	N.A.	98.10
0-90	4213.95	N.A.	100.00
10-90	4035.19	N.A.	95.80
20-40	1521.32	N.A.	36.10
20-50	2260.12	N.A.	53.60
40-70	1705.65	N.A.	40.50
60-80	618.05	N.A.	14.70
70-80	226.98	N.A.	5.40
80-90	81.85	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	4213.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.76
10-20	499.39
20-30	722.08
30-40	799.24
40-50	738.80
50-60	575.78
60-70	391.07
70-80	226.98
80-90	81.85
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	59	59	59	59	58	58	58	58	55	55	55	53	53	53	50	50	50	49
1	54	52	50	48	53	51	49	47	49	47	46	47	46	44	45	44	43	42
2	50	46	43	40	48	45	42	40	43	41	39	42	40	38	40	38	37	36
3	46	41	37	34	44	40	36	34	38	35	33	37	35	32	36	34	32	31
4	42	36	32	29	41	36	32	29	35	31	29	33	31	28	32	30	28	27
5	39	33	29	25	38	32	28	25	31	28	25	30	27	25	29	27	25	24
6	36	30	26	22	35	29	25	22	28	25	22	28	24	22	27	24	22	21
7	34	27	23	20	33	27	23	20	26	22	20	25	22	20	25	22	20	19
8	31	25	21	18	31	25	21	18	24	20	18	23	20	18	23	20	18	17
9	29	23	19	16	29	23	19	16	22	19	16	22	18	16	21	18	16	15
10	28	21	17	15	27	21	17	15	21	17	15	20	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	16.0	17.6	16.4	17.9	18.2	15.7	17.3	16.1	17.6	17.9
	3H	17.6	19.0	18.0	19.3	19.7	17.3	18.7	17.7	19.0	19.4
	4H	18.1	19.5	18.5	19.8	20.2	18.0	19.3	18.4	19.6	20.0
	6H	18.6	19.9	19.1	20.2	20.6	18.6	19.8	19.0	20.2	20.6
	8H	18.9	20.0	19.3	20.4	20.8	18.9	20.0	19.3	20.4	20.8
	12H	19.0	20.1	19.4	20.5	20.9	19.1	20.2	19.5	20.6	21.0

UGR Viewed Endwise

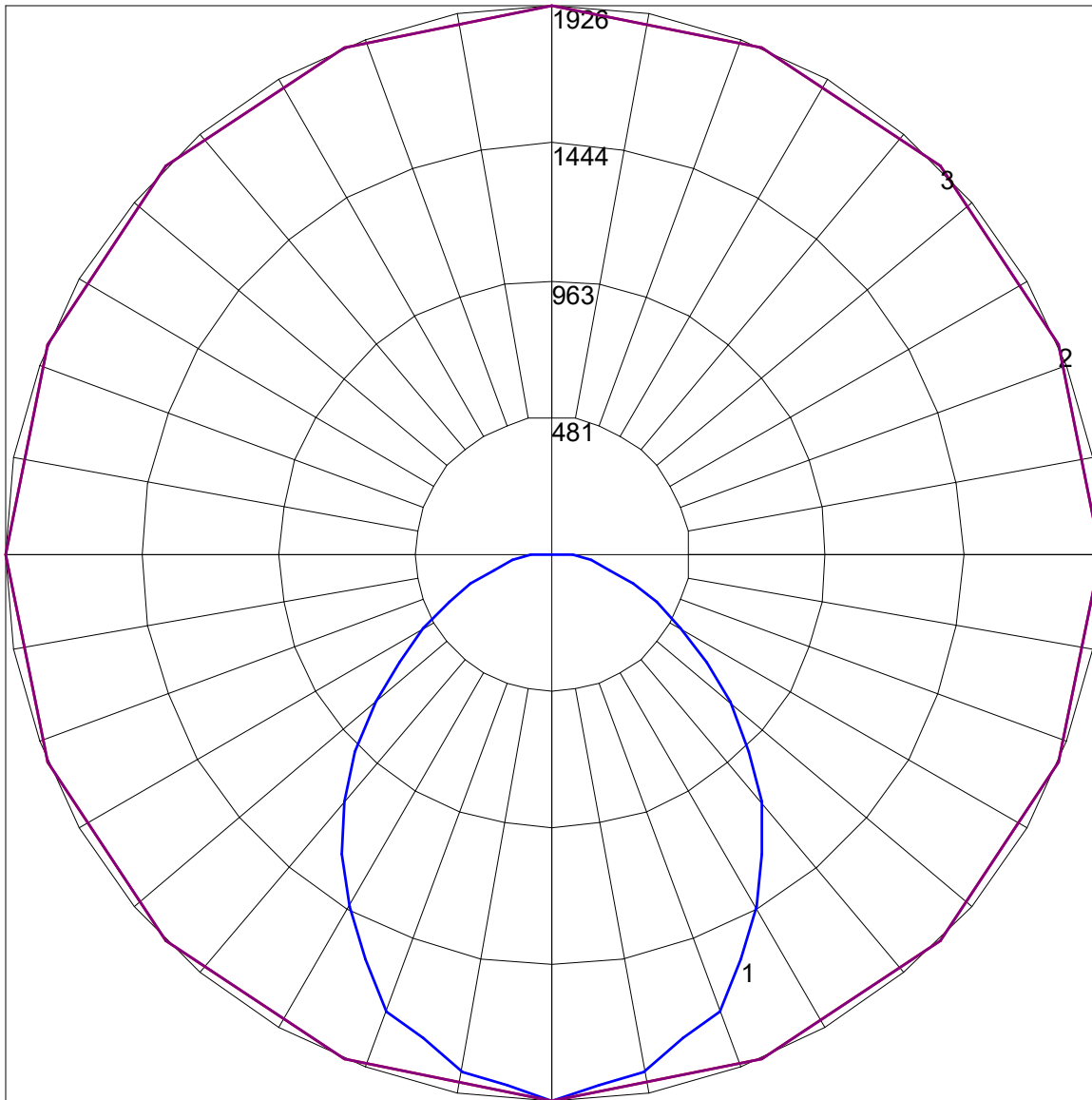
4H	2H	16.5	17.8	16.9	18.2	18.5	16.2	17.6	16.6	17.9	18.3
	3H	18.3	19.4	18.7	19.8	20.2	18.1	19.2	18.5	19.6	20.0
	4H	19.0	20.0	19.4	20.4	20.8	18.9	19.9	19.3	20.3	20.7
	6H	19.6	20.5	20.1	20.9	21.4	19.6	20.5	20.1	21.0	21.4
	8H	19.9	20.7	20.4	21.2	21.6	20.0	20.8	20.4	21.2	21.7
	12H	20.1	20.9	20.6	21.3	21.8	20.3	21.0	20.8	21.5	22.0

8H	4H	19.3	20.1	19.7	20.5	21.0	19.2	20.0	19.6	20.4	20.9
	6H	20.1	20.7	20.6	21.2	21.7	20.1	20.8	20.6	21.3	21.7
	8H	20.4	21.0	21.0	21.5	22.0	20.5	21.1	21.1	21.7	22.1
	12H	20.8	21.3	21.3	21.8	22.4	21.0	21.5	21.5	22.0	22.6

12H	4H	19.3	20.0	19.8	20.5	21.0	19.2	19.9	19.7	20.4	20.9
	6H	20.2	20.8	20.7	21.2	21.8	20.2	20.8	20.7	21.2	21.8
	8H	20.6	21.1	21.1	21.6	22.2	20.7	21.2	21.2	21.7	22.3

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1925.642 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)