



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L15-835-DIM-UNV-LM-OF-WH_0 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20401.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT

[MORE] ACRYLIC MED TIR OPTIC & 6"WHITE ASYM FLUSH TRIM w/SOLITE

[MORE] LENS ADVANCE #XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L15-835-DIM-UNV-LM-OF-WH_0 DEG TILT

[LAMPCAT] BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1442
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	15.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.52
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3096	3038	3271
55	1728	1800	1872
65	1466	1368	1466
75	1277	1117	958
85	0	0	0

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	4056.756	4056.756	4056.756	4056.756	4056.756	4056.756	4056.756	4056.756	4056.756
5	4028.852	3997.176	3961.729	3901.394	3848.602	3810.892	3752.066	3749.803	3734.720
10	3516.006	3478.297	3440.588	3368.940	3306.343	3192.461	3114.780	3065.004	3037.854
15	2516.712	2526.517	2454.115	2395.289	2312.329	2184.871	2103.420	2019.705	1912.611
20	1414.849	1431.441	1374.123	1319.068	1278.342	1159.181	1109.405	1042.282	973.652
25	719.492	705.162	671.224	638.794	621.448	589.772	534.717	478.153	439.689
30	326.562	331.841	312.986	306.199	293.378	282.065	266.227	230.026	209.663
35	156.116	152.345	146.312	148.574	141.032	142.541	129.720	114.636	104.077
40	73.156	70.893	72.402	73.156	73.156	71.647	68.631	61.843	58.826
45	39.972	38.463	39.218	40.726	42.234	43.743	42.988	38.463	38.463
50	24.888	25.642	25.642	27.151	29.413	29.413	29.413	27.905	27.151
55	18.100	18.100	18.855	18.855	19.609	21.871	20.363	19.609	18.855
60	15.084	13.575	15.084	15.084	15.838	15.838	15.838	15.084	13.575
65	11.313	12.067	10.559	11.313	11.313	11.313	12.067	10.559	9.804
70	8.296	8.296	8.296	8.296	7.542	8.296	7.542	8.296	7.542
75	6.033	5.279	5.279	5.279	4.525	5.279	4.525	4.525	4.525
80	3.017	3.017	2.263	2.263	2.263	2.263	1.508	2.263	2.263
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6AR-L15-835-DIM-UNV-LM-OF-WH_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	969.52	N.A.	67.20
0-30	1275.06	N.A.	88.40
0-40	1372.25	N.A.	95.20
0-60	1424.68	N.A.	98.80
0-80	1441.32	N.A.	100.00
0-90	1441.95	N.A.	100.00
10-90	1091.73	N.A.	75.70
20-40	402.73	N.A.	27.90
20-50	436.95	N.A.	30.30
40-70	63.70	N.A.	4.40
60-80	16.64	N.A.	1.20
70-80	5.37	N.A.	0.40
80-90	0.63	N.A.	0.00
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	1441.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	350.22
10-20	619.30
20-30	305.54
30-40	97.19
40-50	34.21
50-60	18.21
60-70	11.28
70-80	5.37
80-90	0.63
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	180	180	180	180	175	175	175	175	168	168	168	160	160	160	154	154	154	151
1	172	169	166	163	169	166	163	160	160	157	155	154	152	151	149	148	146	144
2	166	159	154	150	162	157	152	148	152	148	145	148	145	142	144	141	139	137
3	159	151	145	140	156	149	143	139	145	141	137	142	138	135	139	135	133	130
4	153	144	137	132	151	142	136	131	139	134	129	136	132	128	134	130	127	125
5	148	137	130	125	145	136	129	124	133	128	123	131	126	122	129	125	121	119
6	142	131	124	119	140	130	123	118	128	122	118	126	121	117	124	120	116	114
7	137	126	119	114	136	125	118	113	123	117	113	122	116	112	120	115	112	110
8	133	121	114	109	131	120	113	109	119	113	108	117	112	108	116	111	107	106
9	128	117	109	105	127	116	109	104	115	108	104	113	108	104	112	107	103	102
10	124	112	105	101	123	112	105	101	111	105	100	110	104	100	109	104	100	98

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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

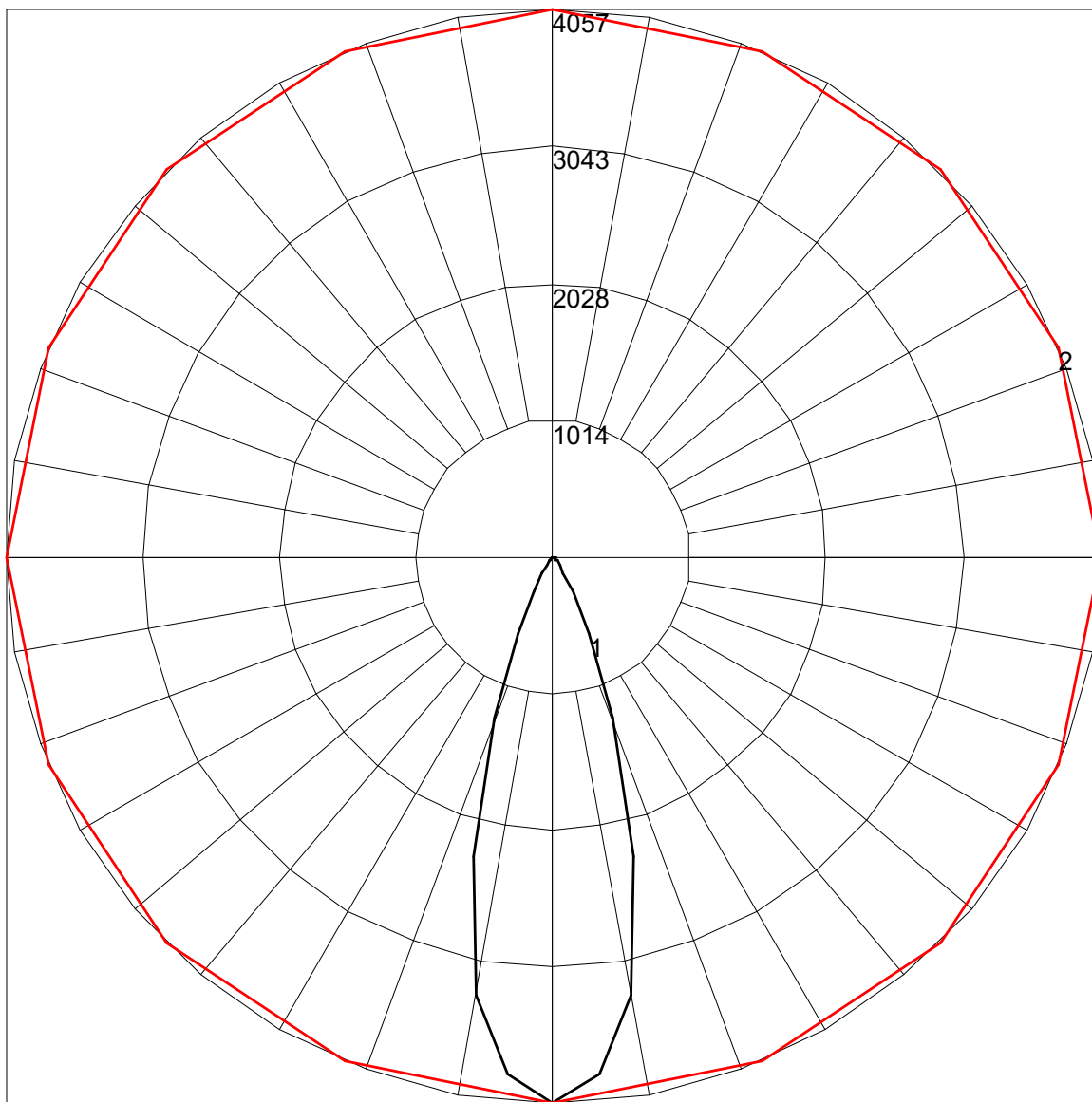
X=2H	Y=2H	3.0	4.0	3.4	4.3	4.6	3.8	4.8	4.2	5.1	5.4
	3H	4.6	5.4	5.0	5.7	6.1	5.0	5.8	5.4	6.1	6.5
	4H	5.1	5.9	5.5	6.2	6.6	5.3	6.1	5.7	6.4	6.8
	6H	5.4	6.1	5.8	6.5	6.9	5.4	6.1	5.8	6.5	6.9
	8H	5.5	6.1	5.9	6.5	6.9	5.4	6.1	5.9	6.5	6.9
	12H	5.4	6.1	5.9	6.4	6.9	5.4	6.0	5.8	6.4	6.8

UGR Viewed Endwise

4H	2H	3.4	4.2	3.8	4.5	4.9	4.1	4.9	4.5	5.2	5.6
	3H	5.2	5.8	5.6	6.2	6.6	5.5	6.1	5.9	6.5	6.9
	4H	5.8	6.3	6.2	6.8	7.2	5.9	6.5	6.4	6.9	7.4
	6H	6.2	6.7	6.7	7.1	7.6	6.2	6.6	6.6	7.1	7.6
	8H	6.2	6.7	6.7	7.1	7.6	6.1	6.6	6.6	7.0	7.5
	12H	6.2	6.6	6.7	7.1	7.5	6.1	6.5	6.6	7.0	7.4
8H	4H	5.9	6.3	6.4	6.8	7.3	6.0	6.4	6.5	6.9	7.4
	6H	6.4	6.7	6.9	7.2	7.7	6.3	6.6	6.8	7.1	7.6
	8H	6.5	6.8	7.0	7.3	7.8	6.3	6.6	6.8	7.1	7.6
	12H	6.4	6.7	6.9	7.2	7.8	6.2	6.5	6.8	7.0	7.6
12H	4H	5.8	6.2	6.3	6.7	7.2	6.0	6.3	6.4	6.8	7.3
	6H	6.3	6.7	6.9	7.1	7.7	6.2	6.5	6.8	7.0	7.6
	8H	6.4	6.7	7.0	7.2	7.8	6.3	6.5	6.8	7.0	7.6

Maximum UGR = 7.8

POLAR GRAPH



Maximum Candela = 4056.756 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)