H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L32-835-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from BALLABS TEST NO. 17875.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 14-AUG-2020
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-2-L32-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3092
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	21.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.62 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	31382	30033	29665
55	30570	28940	28399
65	28458	26248	25500
75	23930	21191	20409
85	12394	11885	9926

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L32-835-DIM-UNV_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1049.782	1049.782	1049.782	1049.782	1049.782
5	1057.453	1050.878	1046.495	1043.573	1042.477
10	1045.764	1039.189	1034.076	1031.154	1029.692
15	1028.231	1019.830	1014.716	1010.333	1011.794
20	1000.471	993.531	987.687	983.303	985.860
25	965.405	959.561	951.160	947.507	946.046
30	925.956	917.555	908.058	905.136	897.465
35	875.549	868.609	857.651	855.459	847.423
40	817.106	802.495	796.651	792.633	790.441
45	748.801	730.903	727.250	723.963	721.406
50	673.190	656.753	653.831	652.370	643.969
55	592.466	575.298	572.741	572.741	565.436
60	504.801	489.460	482.155	485.442	474.484
65	407.275	395.951	387.550	394.490	379.879
70	308.652	294.407	290.023	297.329	286.005
75	210.760	196.880	196.880	196.880	192.497
80	112.137	109.946	109.946	108.120	103.736
85	37.623	39.449	42.006	40.180	36.527
90	3.287	3.287	5.114	3.287	3.287
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L32-835-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	386.60	N.A.	12.50
0-30	826.28	N.A.	26.70
0-40	1364.04	N.A.	44.10
0-60	2439.69	N.A.	78.90
0-80	3038.62	N.A.	98.30
0-90	3090.9	N.A.	100.00
10-90	2991.3	N.A.	96.70
20-40	977.44	N.A.	31.60
20-50	1540.19	N.A.	49.80
40-70	1463.6	N.A.	47.30
60-80	598.92	N.A.	19.40
70-80	210.98	N.A.	6.80
80-90	52.28	N.A.	1.70
90-110	1.03	N.A.	0.00
90-120	1.03	N.A.	0.00
90-130	1.03	N.A.	0.00
90-150	1.03	N.A.	0.00
90-180	1.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3091.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.60
10-20	287.00
20-30	439.68
30-40	537.76
40-50	562.75
50-60	512.90
60-70	387.95
70-80	210.98
80-90	52.28
90-100	1.03
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

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L32-835-DIM-UNV_.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L32-835-DIM-UNV_.IES

UGR TABLE - CORRECTED

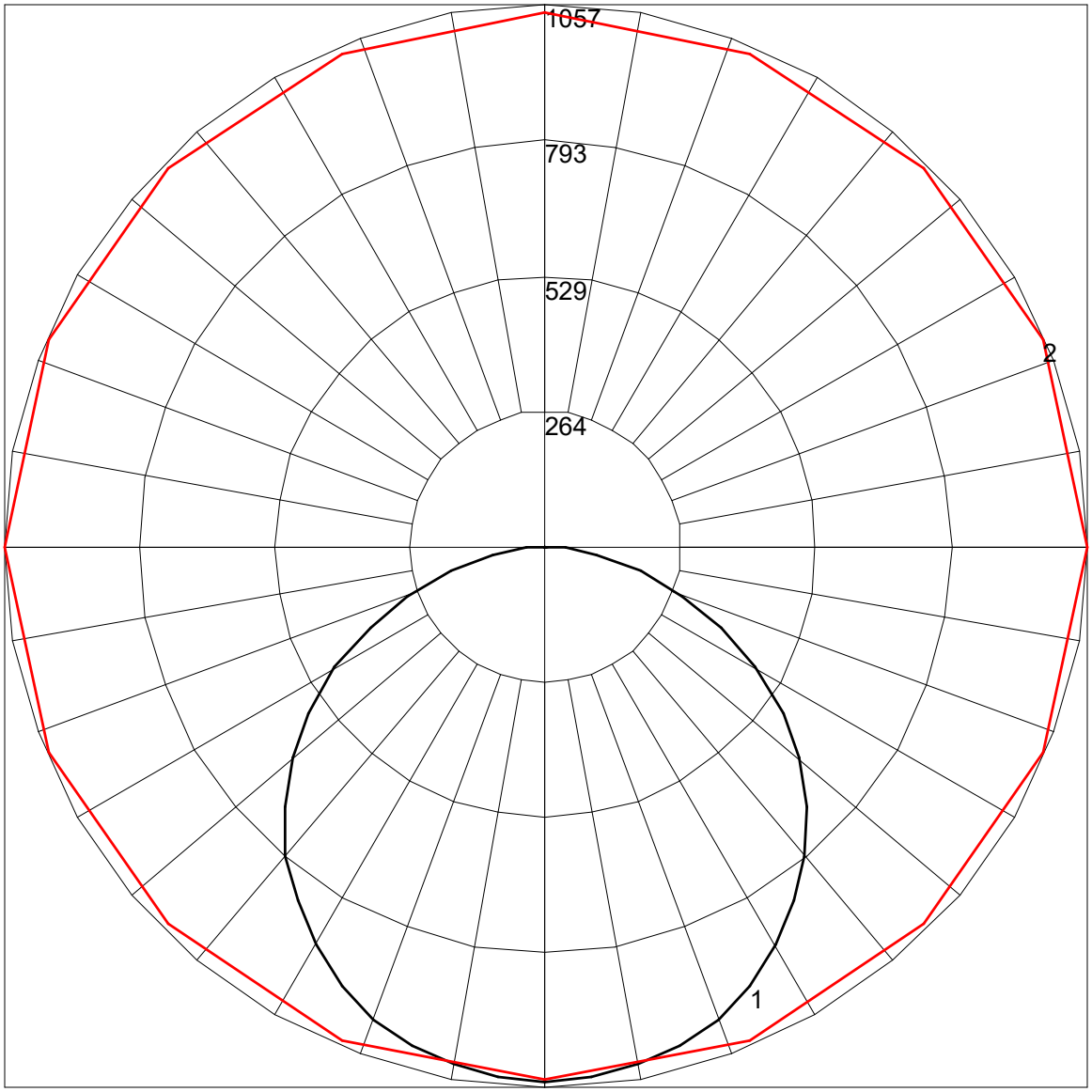
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	24.0	25.6	24.3	25.9	26.2	23.9	25.6	24.3	25.9	26.2
	3H	25.7	27.2	26.1	27.5	27.9	25.7	27.1	26.0	27.5	27.8
	4H	26.3	27.7	26.7	28.1	28.5	26.2	27.7	26.6	28.0	28.4
	6H	26.7	28.0	27.1	28.4	28.8	26.6	27.9	27.0	28.3	28.7
	8H	26.8	28.1	27.3	28.5	28.9	26.7	28.0	27.2	28.4	28.8
	12H	26.9	28.1	27.3	28.4	28.9	26.8	28.0	27.2	28.4	28.8
4H	2H	24.6	26.0	24.9	26.3	26.7	24.5	25.9	24.9	26.3	26.6
	3H	26.5	27.7	26.9	28.1	28.5	26.5	27.7	26.9	28.1	28.5
	4H	27.2	28.3	27.7	28.7	29.2	27.2	28.3	27.6	28.7	29.1
	6H	27.7	28.7	28.2	29.1	29.6	27.7	28.6	28.1	29.1	29.5
	8H	27.9	28.7	28.3	29.2	29.6	27.8	28.7	28.3	29.1	29.6
	12H	27.9	28.7	28.4	29.2	29.7	27.9	28.7	28.4	29.2	29.6
8H	4H	27.5	28.4	28.0	28.8	29.3	27.5	28.3	27.9	28.8	29.2
	6H	28.1	28.8	28.6	29.3	29.8	28.0	28.8	28.5	29.3	29.7
	8H	28.3	28.9	28.8	29.4	29.9	28.3	28.9	28.8	29.4	29.9
	12H	28.4	29.0	28.9	29.5	30.0	28.4	28.9	28.9	29.4	30.0
12H	4H	27.5	28.3	28.0	28.8	29.2	27.5	28.3	28.0	28.7	29.2
	6H	28.2	28.8	28.7	29.3	29.8	28.1	28.8	28.6	29.2	29.7
	8H	28.4	28.9	28.9	29.4	30.0	28.3	28.9	28.8	29.4	29.9

Maximum UGR = 30.0

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L32-835-DIM-UNV_.IES

POLAR GRAPH



Maximum Candela = 1057.453 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.