



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-940-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 27-MAY-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-56 LED 22"ARRAYS 4'SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L30-940-DIM-UNV

[LAMPCAT] HLM 90 CRI 4000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2786
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	20.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9743	8238	8223
55	8041	7050	7239
65	6622	5921	6099
75	4475	4866	4997
85	2626	4179	4098

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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	892.319	892.319	892.319	892.319	892.319
5	902.115	888.912	889.338	887.208	878.264
10	887.208	876.134	878.264	876.986	868.893
15	861.226	853.134	859.097	861.652	853.134
20	822.041	819.911	830.134	834.393	829.282
25	776.041	779.022	793.504	803.300	799.467
30	723.226	727.485	752.189	767.096	766.244
35	658.911	666.577	702.355	723.226	726.207
40	590.336	595.873	641.022	672.540	679.781
45	509.410	523.466	575.429	617.170	627.392
50	425.502	448.076	511.540	557.114	569.892
55	345.002	374.391	445.947	493.651	511.965
60	277.705	304.964	382.909	430.613	449.780
65	213.390	243.205	324.131	367.576	384.187
70	149.501	189.538	268.335	306.242	322.427
75	92.000	143.112	216.797	252.575	266.631
80	51.111	98.815	172.927	206.149	215.094
85	21.722	68.148	138.001	166.538	172.501
90	2.981	46.852	106.908	132.038	140.130
95	0.426	31.945	85.612	104.778	113.297
100	0.000	20.870	66.445	85.612	92.426
105	0.000	14.907	51.537	69.852	75.389
110	0.000	10.222	39.611	57.074	61.760
115	0.000	8.519	32.371	47.704	51.111
120	0.000	6.389	24.704	39.185	42.593
125	0.000	3.833	18.315	31.093	34.926
130	0.000	2.556	13.204	24.278	27.685
135	0.000	1.278	9.796	19.167	21.722
140	0.000	1.278	6.815	14.907	17.037
145	0.000	0.000	4.259	9.370	11.926
150	0.000	0.000	2.981	6.815	8.519
155	0.000	0.000	2.130	3.407	5.537
160	0.000	0.000	0.852	2.556	2.981
165	0.000	0.000	0.000	0.852	1.278
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	326.30	N.A.	11.70
0-30	690.77	N.A.	24.80
0-40	1125.7	N.A.	40.40
0-60	1956.96	N.A.	70.20
0-80	2474.35	N.A.	88.80
0-90	2604.39	N.A.	93.50
10-90	2519.92	N.A.	90.50
20-40	799.41	N.A.	28.70
20-50	1240.1	N.A.	44.50
40-70	1137.72	N.A.	40.80
60-80	517.39	N.A.	18.60
70-80	210.93	N.A.	7.60
80-90	130.04	N.A.	4.70
90-110	124.10	N.A.	4.50
90-120	152.55	N.A.	5.50
90-130	168.70	N.A.	6.10
90-150	180.23	N.A.	6.50
90-180	181.44	N.A.	6.50
110-180	57.34	N.A.	2.10
0-180	2785.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.48
10-20	241.82
20-30	364.48
30-40	434.93
40-50	440.69
50-60	390.56
60-70	306.46
70-80	210.93
80-90	130.04
90-100	77.43
100-110	46.67
110-120	28.45
120-130	16.15
130-140	8.16
140-150	3.37
150-160	1.05
160-170	0.15
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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UGR TABLE - CORRECTED

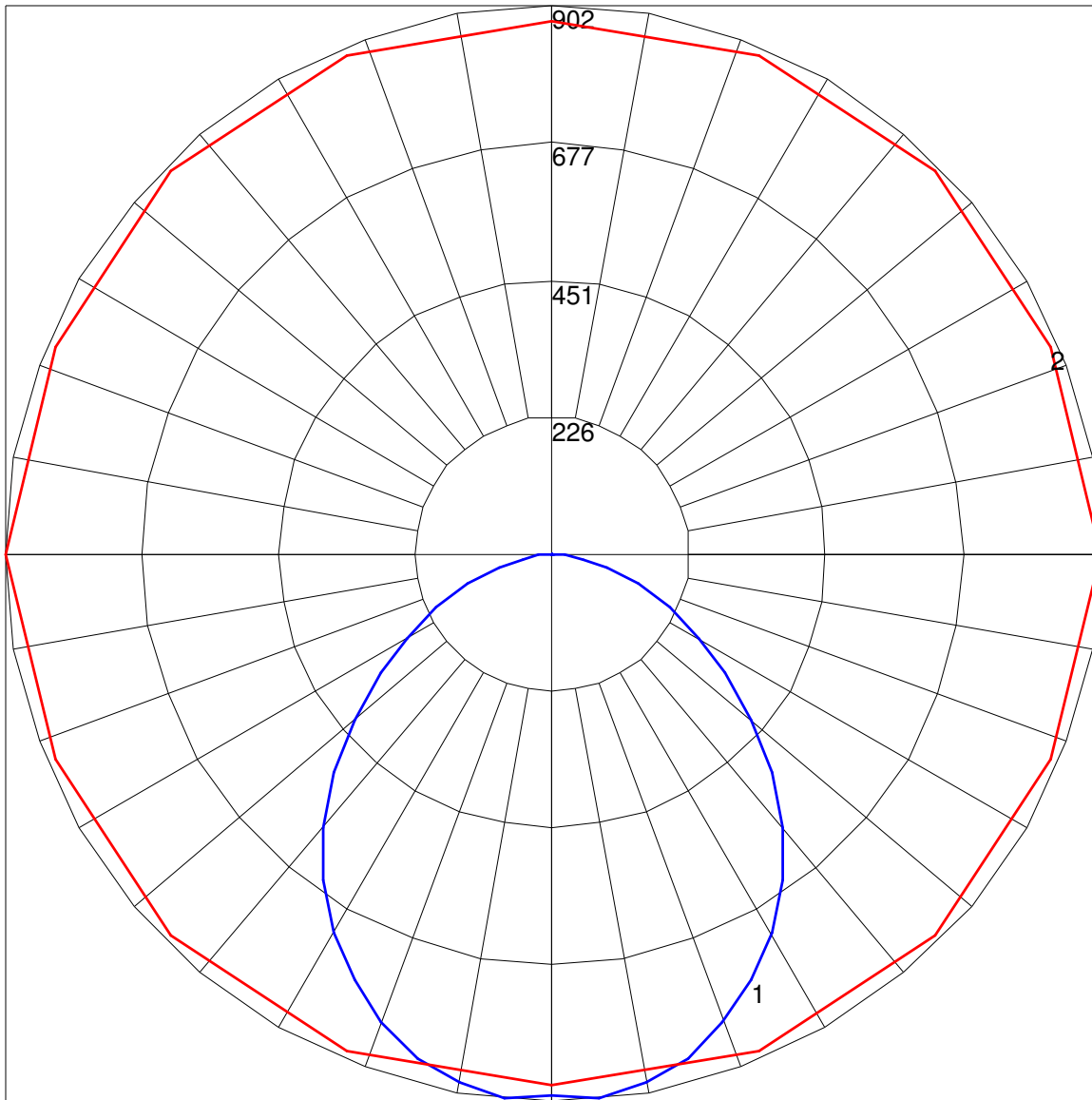
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	16.4	17.9	16.8	18.3	18.8	19.8	21.3	20.2	21.7	22.2
	3H	17.6	18.9	18.0	19.4	19.9	22.0	23.3	22.4	23.8	24.3
	4H	17.9	19.2	18.4	19.7	20.2	23.0	24.3	23.5	24.8	25.3
	6H	18.1	19.3	18.6	19.8	20.3	24.0	25.2	24.6	25.7	26.3
	8H	18.1	19.2	18.6	19.8	20.3	24.6	25.7	25.1	26.2	26.8
	12H	18.1	19.2	18.6	19.7	20.3	25.1	26.2	25.7	26.7	27.3
4H	2H	17.4	18.7	17.9	19.2	19.7	20.1	21.4	20.6	21.9	22.4
	3H	18.9	20.0	19.4	20.5	21.0	22.5	23.6	23.0	24.1	24.7
	4H	19.3	20.3	19.9	20.9	21.5	23.7	24.7	24.2	25.2	25.8
	6H	19.6	20.5	20.2	21.0	21.7	24.9	25.8	25.5	26.4	27.0
	8H	19.7	20.5	20.2	21.1	21.7	25.5	26.4	26.1	26.9	27.5
	12H	19.7	20.4	20.3	21.0	21.7	26.2	27.0	26.8	27.6	28.2
8H	4H	20.1	20.9	20.7	21.5	22.1	23.9	24.7	24.4	25.2	25.9
	6H	20.6	21.3	21.2	21.9	22.5	25.2	25.9	25.8	26.5	27.1
	8H	20.7	21.3	21.3	22.0	22.6	26.0	26.6	26.6	27.2	27.9
	12H	20.8	21.4	21.4	22.0	22.7	26.8	27.4	27.4	28.0	28.7
12H	4H	20.3	21.0	20.9	21.6	22.3	23.8	24.6	24.4	25.2	25.8
	6H	20.9	21.5	21.5	22.1	22.8	25.3	25.9	25.9	26.5	27.2
	8H	21.1	21.7	21.7	22.3	23.0	26.0	26.6	26.7	27.2	27.9

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 902.115 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)