



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-3-L40-840-(L30)-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] 04-28-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-3-L40-840-(L30)-DIM-UNV

[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	3110
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	20.6
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)	2.80 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	14333	12170	12206
55	11786	10401	10746
65	9650	8722	9052
75	6441	7150	7417
85	3609	6117	6082

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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	996.094	996.094	996.094	996.094	996.094
5	1007.030	992.290	992.766	990.388	980.404
10	990.388	978.026	980.404	978.977	969.943
15	961.385	952.351	959.008	961.861	952.351
20	917.643	915.265	926.676	931.431	925.725
25	866.293	869.621	885.787	896.722	892.443
30	807.335	812.090	839.667	856.308	855.357
35	735.540	744.099	784.038	807.335	810.664
40	658.991	665.172	715.571	750.755	758.838
45	568.653	584.343	642.350	688.945	700.356
50	474.987	500.187	571.030	621.905	636.169
55	385.125	417.932	497.809	551.061	571.506
60	310.002	340.431	427.441	480.693	502.088
65	238.207	271.489	361.827	410.324	428.867
70	166.887	211.581	299.541	341.858	359.925
75	102.700	159.755	242.010	281.949	297.640
80	57.055	110.307	193.038	230.124	240.109
85	24.249	76.074	154.050	185.906	192.562
90	3.328	52.301	119.341	147.393	156.427
95	0.475	35.660	95.568	116.964	126.473
100	0.000	23.298	74.172	95.568	103.175
105	0.000	16.641	57.531	77.976	84.157
110	0.000	11.411	44.218	63.712	68.942
115	0.000	9.509	36.135	53.252	57.055
120	0.000	7.132	27.577	43.743	47.546
125	0.000	4.279	20.445	34.709	38.988
130	0.000	2.853	14.739	27.101	30.905
135	0.000	1.426	10.936	21.396	24.249
140	0.000	1.426	7.607	16.641	19.018
145	0.000	0.000	4.755	10.460	13.313
150	0.000	0.000	3.328	7.607	9.509
155	0.000	0.000	2.377	3.804	6.181
160	0.000	0.000	0.951	2.853	3.328
165	0.000	0.000	0.000	0.951	1.426
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	364.24	N.A.	11.70
0-30	771.11	N.A.	24.80
0-40	1256.62	N.A.	40.40
0-60	2184.55	N.A.	70.20
0-80	2762.12	N.A.	88.80
0-90	2907.28	N.A.	93.50
10-90	2812.98	N.A.	90.50
20-40	892.38	N.A.	28.70
20-50	1384.32	N.A.	44.50
40-70	1270.04	N.A.	40.80
60-80	577.56	N.A.	18.60
70-80	235.46	N.A.	7.60
80-90	145.16	N.A.	4.70
90-110	138.53	N.A.	4.50
90-120	170.29	N.A.	5.50
90-130	188.32	N.A.	6.10
90-150	201.19	N.A.	6.50
90-180	202.54	N.A.	6.50
110-180	64.01	N.A.	2.10
0-180	3109.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	94.30
10-20	269.94
20-30	406.86
30-40	485.51
40-50	491.95
50-60	435.99
60-70	342.10
70-80	235.46
80-90	145.16
90-100	86.43
100-110	52.10
110-120	31.76
120-130	18.03
130-140	9.11
140-150	3.76
150-160	1.18
160-170	0.17
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

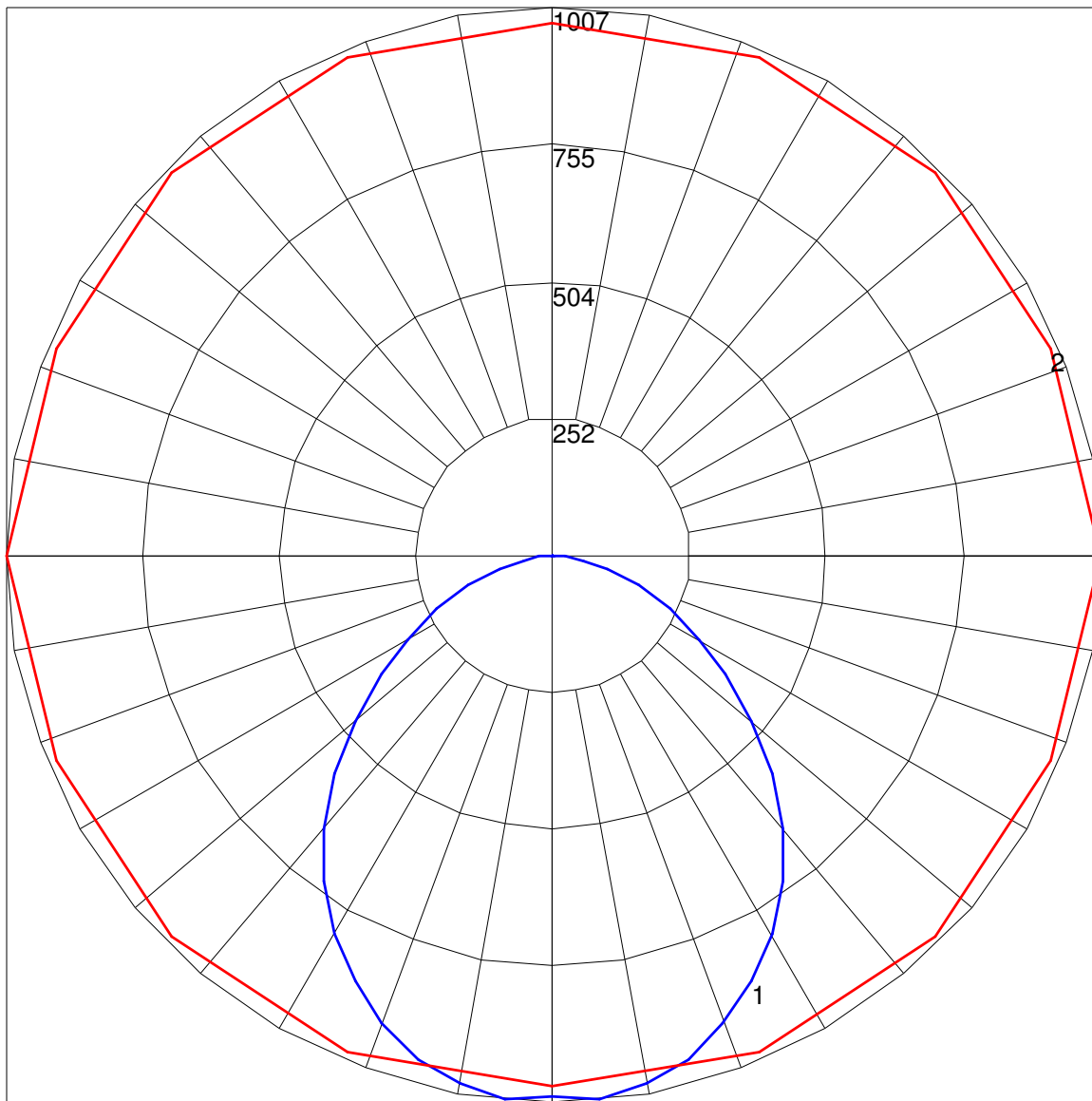
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**UGR TABLE - CORRECTED**

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	17.6	19.1	18.1	19.6	20.1	21.0	22.5	21.5	23.0	23.4
	3H	18.8	20.2	19.3	20.7	21.2	23.2	24.6	23.7	25.0	25.6
	4H	19.2	20.5	19.7	20.9	21.5	24.2	25.5	24.7	26.0	26.5
	6H	19.4	20.5	19.9	21.0	21.6	25.3	26.4	25.8	26.9	27.5
	8H	19.4	20.5	19.9	21.0	21.6	25.8	26.9	26.3	27.4	28.0
	12H	19.4	20.5	19.9	21.0	21.6	26.3	27.4	26.9	27.9	28.5
4H	2H	18.7	20.0	19.2	20.5	21.0	21.3	22.6	21.8	23.1	23.6
	3H	20.1	21.2	20.7	21.8	22.3	23.7	24.8	24.3	25.4	25.9
	4H	20.6	21.6	21.1	22.1	22.7	24.9	25.9	25.5	26.5	27.1
	6H	20.9	21.8	21.4	22.3	22.9	26.1	27.0	26.7	27.6	28.2
	8H	21.0	21.8	21.5	22.3	23.0	26.8	27.6	27.3	28.1	28.8
	12H	21.0	21.7	21.6	22.3	22.9	27.4	28.2	28.0	28.8	29.4
8H	4H	21.4	22.2	21.9	22.8	23.4	25.1	25.9	25.7	26.5	27.1
	6H	21.8	22.5	22.4	23.1	23.8	26.4	27.1	27.0	27.7	28.4
	8H	22.0	22.6	22.6	23.2	23.9	27.2	27.8	27.8	28.4	29.1
	12H	22.1	22.6	22.7	23.2	23.9	28.0	28.6	28.6	29.2	29.9
12H	4H	21.6	22.3	22.2	22.9	23.5	25.1	25.8	25.7	26.4	27.0
	6H	22.2	22.8	22.8	23.4	24.1	26.5	27.1	27.1	27.7	28.4
	8H	22.4	23.0	23.0	23.6	24.3	27.3	27.8	27.9	28.4	29.1

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 1007.03 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.)