

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-935-(L19)-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

[ISSUE DATE] 07-06-2023

[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-L30-935-(L19)-DIM-UNV

[LAMPCAT] HLM 90 CRI 3500K 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	1621
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	12.16
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	5669	4793	4785
55	4678	4102	4212
65	3853	3445	3548
75	2603	2831	2907
85	1528	2432	2384

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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	519.186	519.186	519.186	519.186	519.186
5	524.886	517.203	517.451	516.212	511.008
10	516.212	509.769	511.008	510.264	505.556
15	501.095	496.386	499.856	501.343	496.386
20	478.295	477.056	483.004	485.482	482.508
25	451.531	453.265	461.691	467.391	465.161
30	420.801	423.279	437.653	446.326	445.831
35	383.380	387.840	408.657	420.801	422.535
40	343.480	346.702	372.971	391.310	395.523
45	296.394	304.573	334.807	359.093	365.041
50	247.574	260.708	297.634	324.150	331.585
55	200.735	217.835	259.469	287.225	297.881
60	161.580	177.440	222.791	250.547	261.699
65	124.159	141.506	188.592	213.870	223.535
70	86.985	110.281	156.127	178.184	187.601
75	53.529	83.268	126.141	146.958	155.136
80	29.739	57.495	100.615	119.946	125.150
85	12.639	39.651	80.294	96.898	100.368
90	1.735	27.260	62.203	76.825	81.533
95	0.248	18.587	49.812	60.964	65.920
100	0.000	12.143	38.660	49.812	53.777
105	0.000	8.674	29.986	40.643	43.864
110	0.000	5.948	23.047	33.208	35.934
115	0.000	4.956	18.834	27.756	29.739
120	0.000	3.717	14.374	22.800	24.782
125	0.000	2.230	10.656	18.091	20.321
130	0.000	1.487	7.682	14.126	16.108
135	0.000	0.743	5.700	11.152	12.639
140	0.000	0.743	3.965	8.674	9.913
145	0.000	0.000	2.478	5.452	6.939
150	0.000	0.000	1.735	3.965	4.956
155	0.000	0.000	1.239	1.983	3.222
160	0.000	0.000	0.496	1.487	1.735
165	0.000	0.000	0.000	0.496	0.743
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	189.85	N.A.	11.70
0-30	401.92	N.A.	24.80
0-40	654.98	N.A.	40.40
0-60	1138.64	N.A.	70.20
0-80	1439.68	N.A.	88.80
0-90	1515.34	N.A.	93.50
10-90	1466.18	N.A.	90.50
20-40	465.13	N.A.	28.70
20-50	721.54	N.A.	44.50
40-70	661.97	N.A.	40.80
60-80	301.04	N.A.	18.60
70-80	122.73	N.A.	7.60
80-90	75.66	N.A.	4.70
90-110	72.20	N.A.	4.50
90-120	88.76	N.A.	5.50
90-130	98.15	N.A.	6.10
90-150	104.86	N.A.	6.50
90-180	105.57	N.A.	6.50
110-180	33.36	N.A.	2.10
0-180	1620.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.15
10-20	140.70
20-30	212.07
30-40	253.06
40-50	256.41
50-60	227.25
60-70	178.31
70-80	122.73
80-90	75.66
90-100	45.05
100-110	27.16
110-120	16.55
120-130	9.40
130-140	4.75
140-150	1.96
150-160	0.61
160-170	0.09
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

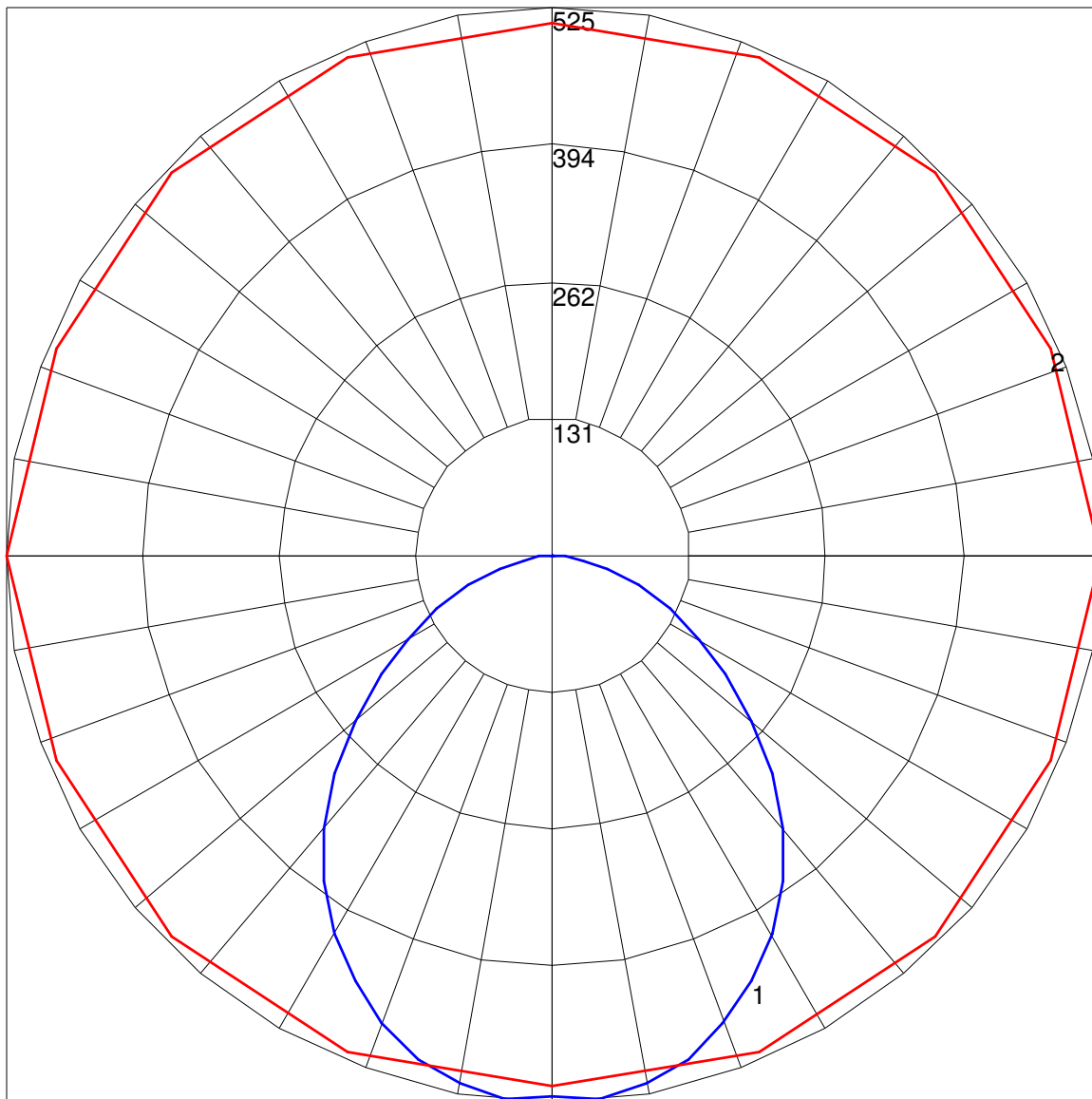
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**UGR TABLE - CORRECTED**

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	14.5	16.0	14.9	16.4	16.9	17.9	19.3	18.3	19.8	20.3
	3H	15.7	17.0	16.1	17.5	18.0	20.1	21.4	20.5	21.9	22.4
	4H	16.0	17.3	16.5	17.8	18.3	21.1	22.4	21.6	22.9	23.4
	6H	16.2	17.4	16.7	17.9	18.4	22.1	23.3	22.6	23.8	24.4
	8H	16.2	17.3	16.7	17.9	18.4	22.7	23.8	23.2	24.3	24.9
	12H	16.2	17.3	16.7	17.8	18.4	23.2	24.3	23.8	24.8	25.4
4H	2H	15.5	16.8	16.0	17.3	17.8	18.2	19.5	18.7	19.9	20.5
	3H	17.0	18.1	17.5	18.6	19.1	20.6	21.7	21.1	22.2	22.8
	4H	17.4	18.4	18.0	19.0	19.6	21.8	22.8	22.3	23.3	23.9
	6H	17.7	18.6	18.3	19.1	19.8	23.0	23.9	23.6	24.5	25.1
	8H	17.8	18.6	18.3	19.2	19.8	23.6	24.5	24.2	25.0	25.6
	12H	17.8	18.5	18.4	19.1	19.8	24.3	25.1	24.9	25.7	26.3
8H	4H	18.2	19.0	18.8	19.6	20.2	21.9	22.8	22.5	23.3	24.0
	6H	18.7	19.4	19.3	20.0	20.6	23.3	24.0	23.9	24.6	25.2
	8H	18.8	19.4	19.4	20.1	20.7	24.1	24.7	24.7	25.3	26.0
	12H	18.9	19.5	19.5	20.1	20.8	24.9	25.5	25.5	26.1	26.8
12H	4H	18.4	19.1	19.0	19.7	20.4	21.9	22.7	22.5	23.3	23.9
	6H	19.0	19.6	19.6	20.2	20.9	23.4	24.0	24.0	24.6	25.2
	8H	19.2	19.8	19.8	20.4	21.1	24.1	24.7	24.8	25.3	26.0

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 524.886 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.)