

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-935-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 03/13/2025

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L30-935-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	2420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	19.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8716	7033	6650
55	7389	5896	5959
65	5803	5038	5413
75	3996	4118	4802
85	1785	3493	4210

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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	816.618	816.618	816.618	816.618	816.618
5	823.642	813.291	812.921	811.073	801.461
10	809.594	800.352	801.092	798.873	790.001
15	787.044	778.172	780.390	778.172	770.778
20	749.337	742.682	749.337	746.010	738.246
25	702.757	700.170	706.084	705.715	694.255
30	651.372	652.481	659.135	659.135	645.088
35	588.527	597.399	600.726	601.835	587.418
40	520.137	533.445	530.487	536.402	529.009
45	453.225	465.055	464.315	475.036	473.187
50	384.834	395.555	404.058	422.172	425.869
55	314.596	327.904	346.758	373.744	385.944
60	248.423	264.689	296.851	330.122	346.018
65	184.839	210.716	251.011	289.088	305.354
70	126.799	160.810	204.062	245.466	264.689
75	80.590	113.121	161.919	203.323	222.546
80	43.992	75.414	127.169	164.876	182.621
85	14.048	46.210	96.486	130.127	146.762
90	0.000	29.944	73.566	104.988	116.448
95	0.000	27.356	68.760	96.116	102.770
100	0.000	25.877	63.954	87.614	93.528
105	0.000	23.659	59.888	80.959	86.874
110	0.000	22.181	55.821	75.784	81.699
115	0.000	20.332	51.016	70.978	76.523
120	0.000	17.375	45.840	64.324	70.978
125	0.000	14.417	41.404	58.779	64.694
130	0.000	11.830	35.859	52.494	56.561
135	0.000	10.721	28.835	45.470	49.537
140	0.000	8.872	22.550	38.077	42.143
145	0.000	7.024	17.375	29.574	33.641
150	0.000	5.175	13.308	22.550	25.877
155	0.000	4.066	10.721	16.266	18.854
160	0.000	0.000	7.763	11.830	13.308
165	0.000	0.000	5.175	8.503	9.242
170	0.000	0.000	0.000	5.175	5.545
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	296.45	N.A.	12.20
0-30	620.10	N.A.	25.60
0-40	992.66	N.A.	41.00
0-60	1668.02	N.A.	68.90
0-80	2083.01	N.A.	86.10
0-90	2182.1	N.A.	90.20
10-90	2104.94	N.A.	87.00
20-40	696.21	N.A.	28.80
20-50	1057.56	N.A.	43.70
40-70	922.21	N.A.	38.10
60-80	414.99	N.A.	17.10
70-80	168.14	N.A.	6.90
80-90	99.09	N.A.	4.10
90-110	121.93	N.A.	5.00
90-120	166.56	N.A.	6.90
90-130	199.45	N.A.	8.20
90-150	232.08	N.A.	9.60
90-180	238.20	N.A.	9.80
110-180	116.27	N.A.	4.80
0-180	2420.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	77.16
10-20	219.29
20-30	323.65
30-40	372.56
40-50	361.35
50-60	314.00
60-70	246.85
70-80	168.14
80-90	99.09
90-100	66.71
100-110	55.21
110-120	44.64
120-130	32.88
130-140	21.31
140-150	11.32
150-160	4.74
160-170	1.31
170-180	0.07

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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	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	90	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

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**UGR TABLE - CORRECTED**

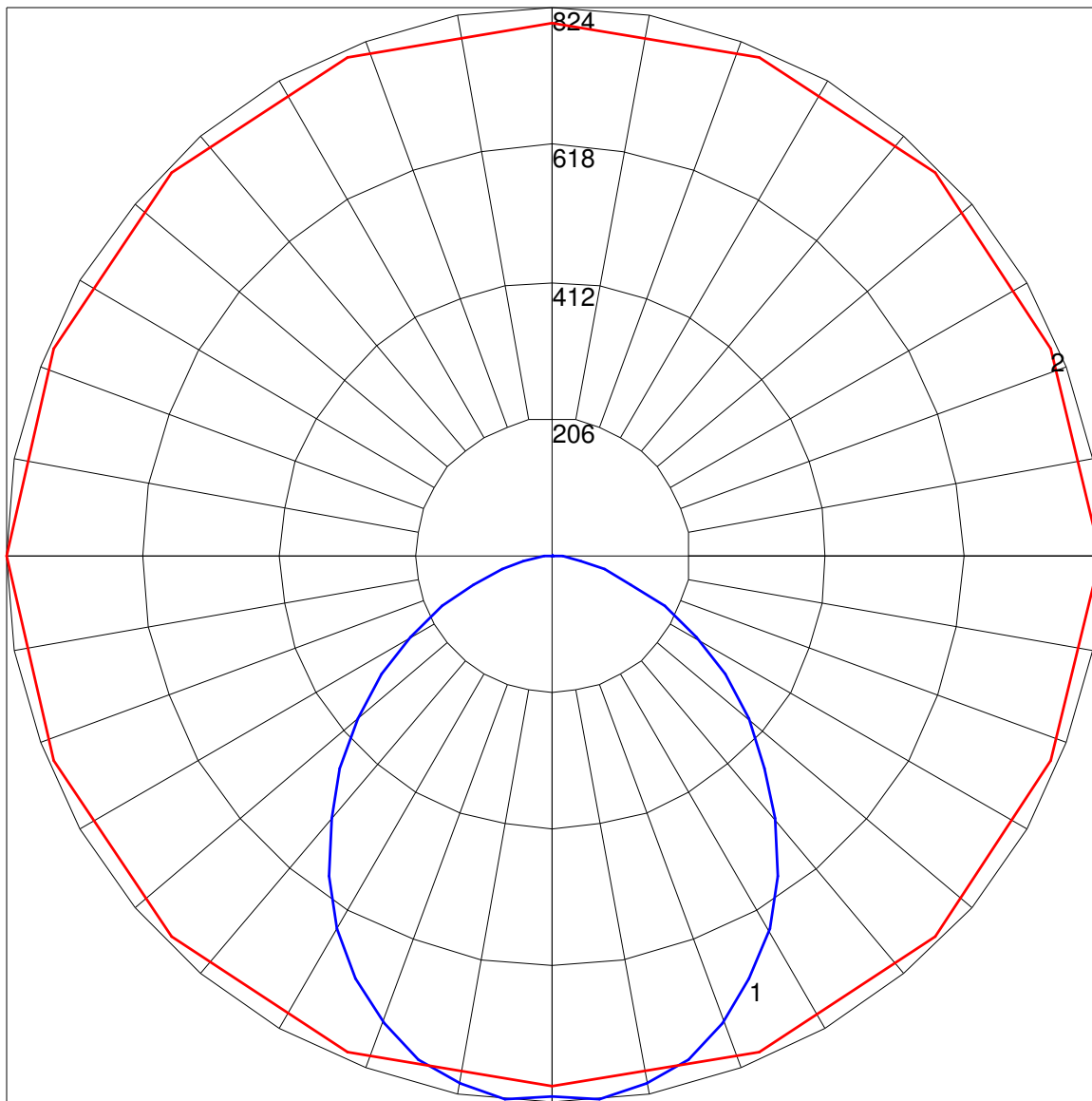
Reflectances

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	16.2	17.6	16.7	18.1	18.7	18.4	19.9	19.0	20.4	20.9
	3H	17.4	18.6	17.9	19.2	19.7	20.8	22.1	21.4	22.6	23.2
	4H	17.7	18.9	18.2	19.4	20.0	22.0	23.2	22.5	23.7	24.3
	6H	17.8	19.0	18.4	19.5	20.1	23.1	24.2	23.7	24.8	25.4
	8H	17.8	18.9	18.4	19.5	20.1	23.7	24.8	24.3	25.3	26.0
	12H	17.8	18.9	18.4	19.4	20.1	24.3	25.3	24.9	25.9	26.6
4H	2H	17.0	18.2	17.5	18.8	19.4	18.8	20.0	19.3	20.5	21.2
	3H	18.4	19.4	19.0	20.0	20.7	21.4	22.4	22.0	23.0	23.6
	4H	18.9	19.8	19.4	20.4	21.0	22.7	23.6	23.3	24.2	24.9
	6H	19.1	19.9	19.7	20.6	21.2	24.0	24.8	24.6	25.4	26.1
	8H	19.2	20.0	19.8	20.6	21.2	24.7	25.5	25.3	26.1	26.8
	12H	19.2	19.9	19.8	20.5	21.2	25.4	26.1	26.1	26.8	27.5
8H	4H	19.5	20.3	20.1	20.9	21.6	22.8	23.6	23.4	24.2	24.9
	6H	19.9	20.6	20.6	21.2	21.9	24.3	25.0	25.0	25.6	26.3
	8H	20.1	20.6	20.7	21.3	22.0	25.1	25.7	25.8	26.4	27.1
	12H	20.1	20.6	20.8	21.3	22.1	26.0	26.5	26.7	27.2	28.0
12H	4H	19.7	20.4	20.3	21.0	21.7	22.8	23.5	23.4	24.2	24.9
	6H	20.2	20.8	20.9	21.4	22.2	24.3	24.9	25.0	25.5	26.3
	8H	20.4	20.9	21.1	21.6	22.4	25.2	25.7	25.8	26.4	27.1

Maximum UGR = 28.0

POLAR GRAPH



Maximum Candela = 823.642 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.)