



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-927-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

[ISSUEDATE] 05/14/2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44 INCH LED SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L30-927-DIM-UNV

[LAMPCAT] HLM2256-5630 REV A

[_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	2828
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	10184	8218	7770
55	8634	6889	6962
65	6780	5887	6324
75	4669	4812	5611
85	2086	4082	4919

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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	954.185	954.185	954.185	954.185	954.185
5	962.392	950.298	949.866	947.706	936.475
10	945.978	935.179	936.043	933.451	923.085
15	919.629	909.262	911.854	909.262	900.623
20	875.570	867.795	875.570	871.682	862.611
25	821.144	818.120	825.031	824.599	811.209
30	761.102	762.398	770.173	770.173	753.759
35	687.670	698.037	701.924	703.220	686.374
40	607.759	623.309	619.853	626.765	618.125
45	529.575	543.397	542.534	555.060	552.900
50	449.664	462.190	472.125	493.291	497.610
55	367.592	383.143	405.172	436.705	450.959
60	290.273	309.279	346.859	385.734	404.308
65	215.977	246.213	293.296	337.788	356.794
70	148.160	187.900	238.438	286.817	309.279
75	94.166	132.178	189.196	237.574	260.036
80	51.402	88.119	148.592	192.651	213.385
85	16.414	53.994	112.740	152.048	171.486
90	0.000	34.988	85.959	122.675	136.065
95	0.000	31.965	80.343	112.308	120.083
100	0.000	30.237	74.728	102.373	109.284
105	0.000	27.645	69.976	94.598	101.509
110	0.000	25.917	65.225	88.550	95.462
115	0.000	23.757	59.610	82.935	89.414
120	0.000	20.302	53.562	75.160	82.935
125	0.000	16.846	48.379	68.681	75.592
130	0.000	13.823	41.899	61.337	66.089
135	0.000	12.527	33.692	53.130	57.882
140	0.000	10.367	26.349	44.491	49.243
145	0.000	8.207	20.302	34.556	39.308
150	0.000	6.047	15.550	26.349	30.237
155	0.000	4.751	12.527	19.006	22.030
160	0.000	0.000	9.071	13.823	15.550
165	0.000	0.000	6.047	9.935	10.799
170	0.000	0.000	0.000	6.047	6.479
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	346.39	N.A.	12.20
0-30	724.56	N.A.	25.60
0-40	1159.88	N.A.	41.00
0-60	1949.01	N.A.	68.90
0-80	2433.91	N.A.	86.10
0-90	2549.69	N.A.	90.20
10-90	2459.53	N.A.	87.00
20-40	813.49	N.A.	28.80
20-50	1235.72	N.A.	43.70
40-70	1077.56	N.A.	38.10
60-80	484.90	N.A.	17.10
70-80	196.46	N.A.	6.90
80-90	115.78	N.A.	4.10
90-110	142.47	N.A.	5.00
90-120	194.62	N.A.	6.90
90-130	233.05	N.A.	8.20
90-150	271.18	N.A.	9.60
90-180	278.32	N.A.	9.80
110-180	135.86	N.A.	4.80
0-180	2828.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.16
10-20	256.23
20-30	378.17
30-40	435.32
40-50	422.23
50-60	366.90
60-70	288.44
70-80	196.46
80-90	115.78
90-100	77.95
100-110	64.52
110-120	52.15
120-130	38.42
130-140	24.90
140-150	13.23
150-160	5.54
160-170	1.53
170-180	0.08

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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	89	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

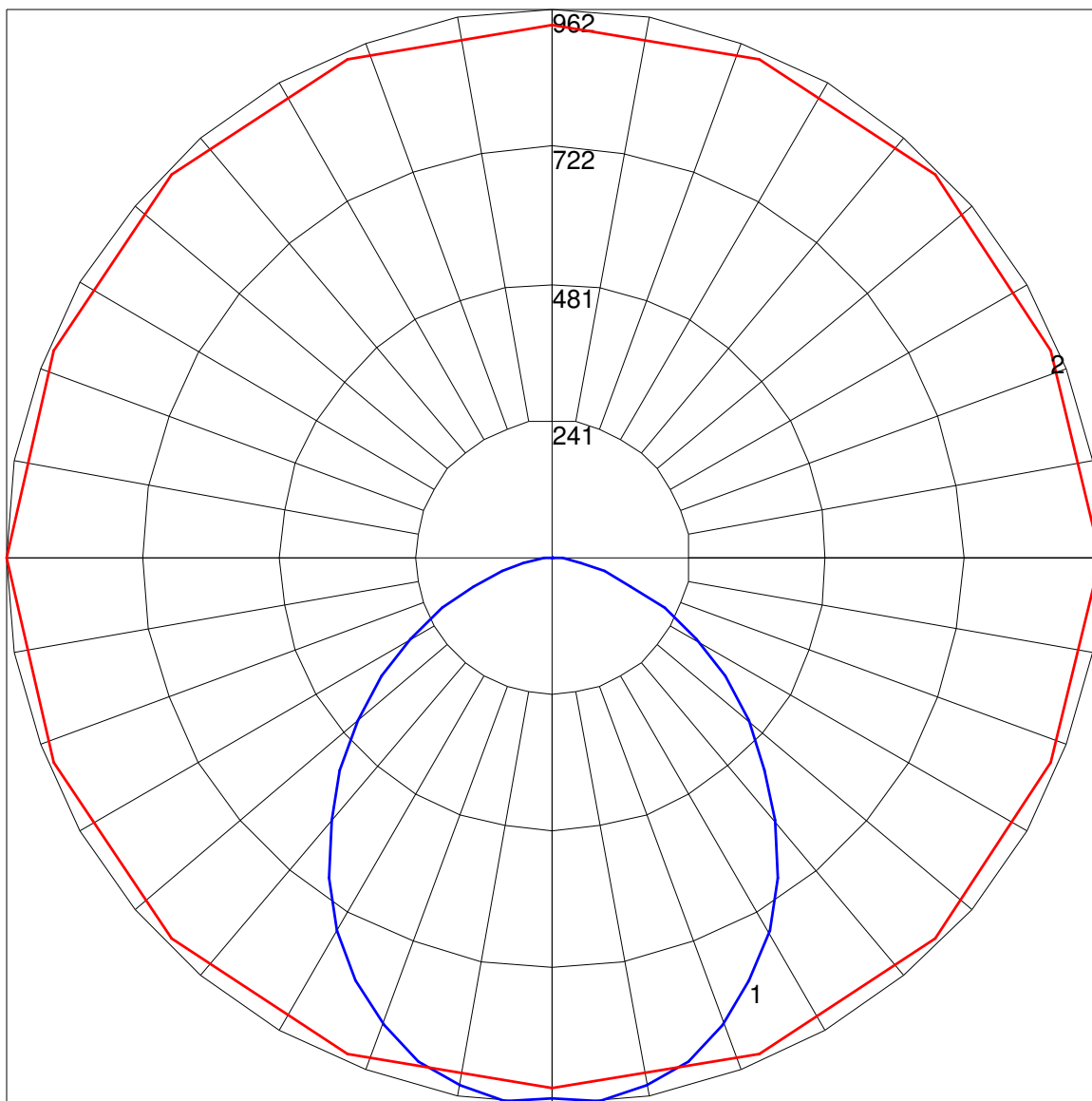
Reflectances

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	16.7	18.1	17.2	18.6	19.2	18.9	20.4	19.5	20.9	21.4
	3H	17.9	19.1	18.4	19.7	20.2	21.3	22.6	21.9	23.1	23.7
	4H	18.2	19.4	18.7	19.9	20.5	22.5	23.7	23.0	24.2	24.8
	6H	18.3	19.5	18.9	20.0	20.6	23.6	24.7	24.2	25.3	25.9
	8H	18.3	19.4	18.9	20.0	20.6	24.2	25.3	24.8	25.8	26.5
	12H	18.3	19.4	18.9	19.9	20.6	24.8	25.8	25.4	26.4	27.1
4H	2H	17.5	18.7	18.0	19.2	19.9	19.3	20.5	19.8	21.0	21.7
	3H	18.9	19.9	19.5	20.5	21.2	21.9	22.9	22.5	23.5	24.1
	4H	19.4	20.3	19.9	20.9	21.5	23.2	24.1	23.8	24.7	25.4
	6H	19.6	20.4	20.2	21.1	21.7	24.5	25.3	25.1	25.9	26.6
	8H	19.7	20.4	20.3	21.1	21.7	25.2	26.0	25.8	26.6	27.3
	12H	19.7	20.4	20.3	21.0	21.7	25.9	26.6	26.5	27.3	28.0
8H	4H	20.0	20.8	20.6	21.4	22.1	23.3	24.1	23.9	24.7	25.4
	6H	20.4	21.1	21.1	21.7	22.4	24.8	25.5	25.5	26.1	26.8
	8H	20.6	21.1	21.2	21.8	22.5	25.6	26.2	26.3	26.9	27.6
	12H	20.6	21.1	21.3	21.8	22.6	26.5	27.0	27.2	27.7	28.5
12H	4H	20.2	20.9	20.8	21.5	22.2	23.3	24.0	23.9	24.7	25.4
	6H	20.7	21.3	21.4	21.9	22.7	24.8	25.4	25.5	26.0	26.8
	8H	20.9	21.4	21.6	22.1	22.9	25.7	26.2	26.3	26.9	27.6

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 962.392 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.)