



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-830-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] 02-11-2022

[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-L30-830-DIM-UNV

[LAMPCAT] HLM 80 CRI 3000K 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	2887
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
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	10397	8389	7932
55	8814	7033	7108
65	6921	6009	6456
75	4766	4912	5728
85	2130	4167	5021

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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	974.092	974.092	974.092	974.092	974.092
5	982.471	970.124	969.683	967.478	956.013
10	965.714	954.690	955.572	952.926	942.343
15	938.815	928.232	930.878	928.232	919.413
20	893.837	885.899	893.837	889.868	880.608
25	838.275	835.188	842.244	841.803	828.133
30	776.981	778.304	786.241	786.241	769.484
35	702.017	712.600	716.569	717.891	700.694
40	620.438	636.313	632.785	639.841	631.021
45	540.623	554.734	553.852	566.640	564.436
50	459.045	471.833	481.975	503.582	507.992
55	375.261	391.136	413.625	445.816	460.368
60	296.329	315.731	354.095	393.782	412.744
65	220.483	251.350	299.415	344.835	364.237
70	151.251	191.820	243.413	292.801	315.731
75	96.130	134.935	193.143	242.531	265.461
80	52.475	89.957	151.692	196.671	217.837
85	16.757	55.121	115.092	155.220	175.063
90	0.000	35.718	87.752	125.234	138.904
95	0.000	32.631	82.020	114.651	122.588
100	0.000	30.868	76.287	104.509	111.564
105	0.000	28.222	71.436	96.571	103.627
110	0.000	26.458	66.586	90.398	97.453
115	0.000	24.253	60.853	84.665	91.280
120	0.000	20.725	54.680	76.728	84.665
125	0.000	17.198	49.388	70.113	77.169
130	0.000	14.111	42.774	62.617	67.468
135	0.000	12.788	34.395	54.239	59.089
140	0.000	10.583	26.899	45.419	50.270
145	0.000	8.378	20.725	35.277	40.128
150	0.000	6.174	15.875	26.899	30.868
155	0.000	4.851	12.788	19.402	22.489
160	0.000	0.000	9.260	14.111	15.875
165	0.000	0.000	6.174	10.142	11.024
170	0.000	0.000	0.000	6.174	6.614
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	353.62	N.A.	12.20
0-30	739.68	N.A.	25.60
0-40	1184.08	N.A.	41.00
0-60	1989.67	N.A.	68.90
0-80	2484.69	N.A.	86.10
0-90	2602.89	N.A.	90.20
10-90	2510.85	N.A.	87.00
20-40	830.47	N.A.	28.80
20-50	1261.5	N.A.	43.70
40-70	1100.04	N.A.	38.10
60-80	495.01	N.A.	17.10
70-80	200.56	N.A.	6.90
80-90	118.20	N.A.	4.10
90-110	145.44	N.A.	5.00
90-120	198.68	N.A.	6.90
90-130	237.91	N.A.	8.20
90-150	276.84	N.A.	9.60
90-180	284.13	N.A.	9.80
110-180	138.69	N.A.	4.80
0-180	2887.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.04
10-20	261.58
20-30	386.06
30-40	444.40
40-50	431.04
50-60	374.56
60-70	294.45
70-80	200.56
80-90	118.20
90-100	79.58
100-110	65.86
110-120	53.24
120-130	39.22
130-140	25.42
140-150	13.51
150-160	5.65
160-170	1.56
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

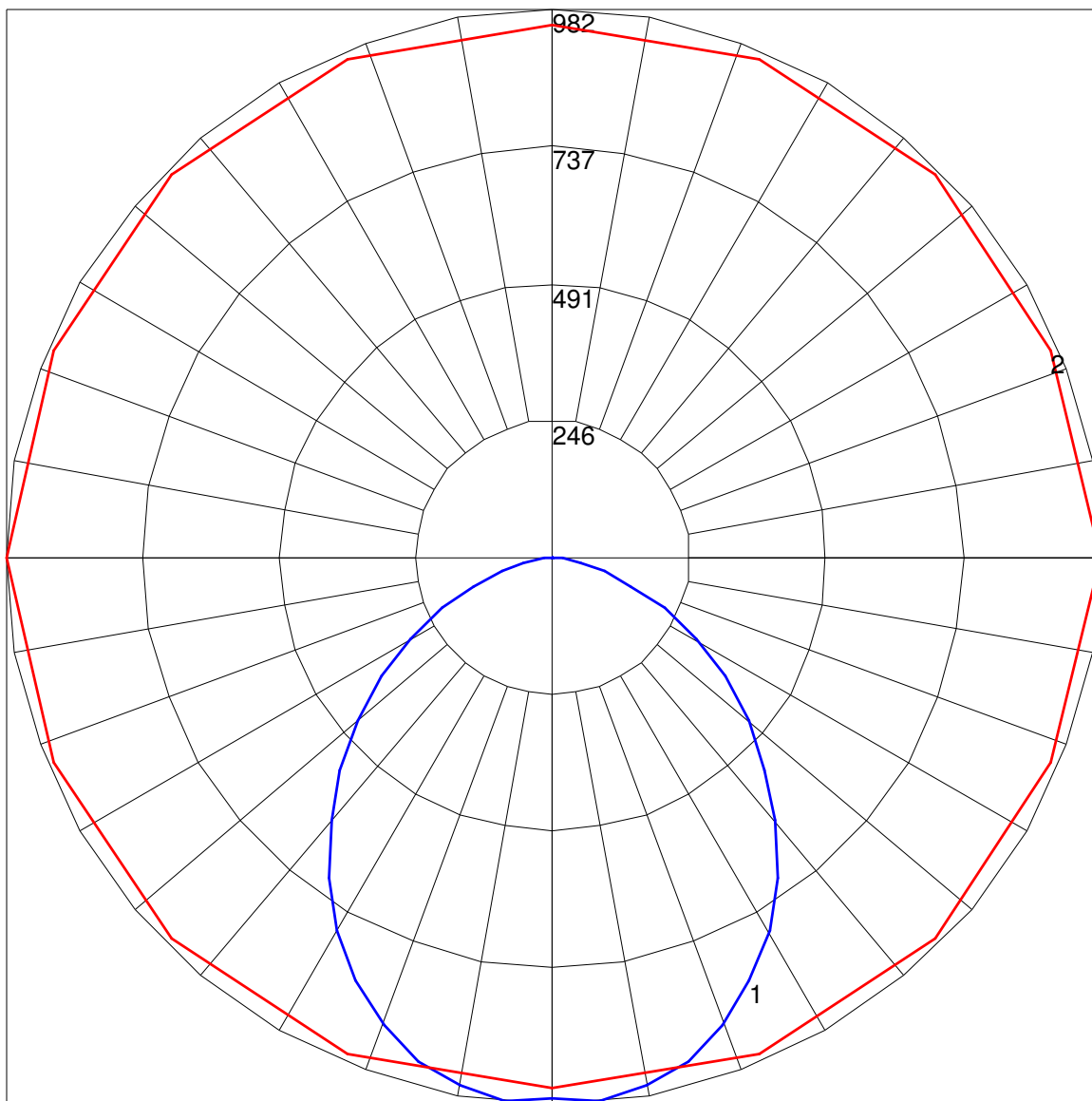
Reflectances

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	16.8	18.2	17.3	18.7	19.3	19.0	20.5	19.6	21.0	21.5
	3H	18.0	19.2	18.5	19.8	20.3	21.4	22.7	22.0	23.2	23.8
	4H	18.3	19.5	18.8	20.0	20.6	22.6	23.8	23.1	24.3	24.9
	6H	18.4	19.6	19.0	20.1	20.7	23.7	24.8	24.3	25.4	26.0
	8H	18.4	19.5	19.0	20.1	20.7	24.3	25.4	24.9	25.9	26.6
	12H	18.4	19.5	19.0	20.0	20.7	24.9	25.9	25.5	26.5	27.2
4H	2H	17.6	18.8	18.1	19.3	20.0	19.4	20.6	19.9	21.1	21.8
	3H	19.0	20.0	19.6	20.6	21.3	22.0	23.0	22.6	23.6	24.2
	4H	19.5	20.4	20.0	21.0	21.6	23.3	24.2	23.9	24.8	25.5
	6H	19.7	20.5	20.3	21.2	21.8	24.6	25.4	25.2	26.0	26.7
	8H	19.8	20.5	20.4	21.2	21.8	25.3	26.1	25.9	26.7	27.4
	12H	19.8	20.5	20.4	21.1	21.8	26.0	26.7	26.6	27.4	28.1
8H	4H	20.1	20.9	20.7	21.5	22.2	23.4	24.2	24.0	24.8	25.5
	6H	20.5	21.2	21.2	21.8	22.5	24.9	25.6	25.6	26.2	26.9
	8H	20.7	21.2	21.3	21.9	22.6	25.7	26.3	26.4	27.0	27.7
	12H	20.7	21.2	21.4	21.9	22.7	26.6	27.1	27.3	27.8	28.6
12H	4H	20.3	21.0	20.9	21.6	22.3	23.4	24.1	24.0	24.8	25.5
	6H	20.8	21.4	21.5	22.0	22.8	24.9	25.5	25.6	26.1	26.9
	8H	21.0	21.5	21.7	22.2	23.0	25.8	26.3	26.4	27.0	27.7

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 982.471 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.)