



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-835-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] 1-SEP-2020

[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-L30-835-DIM-UNV

[LAMPCAT] HLM 80 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	2916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	10501	8474	8012
55	8903	7103	7179
65	6991	6070	6521
75	4814	4962	5786
85	2151	4209	5072

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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	983.877	983.877	983.877	983.877	983.877
5	992.340	979.869	979.423	977.196	965.616
10	975.415	964.280	965.171	962.498	951.809
15	948.246	937.556	940.228	937.556	928.648
20	902.815	894.798	902.815	898.807	889.453
25	846.696	843.578	850.704	850.259	836.451
30	784.786	786.122	794.139	794.139	777.214
35	709.069	719.758	723.767	725.103	707.732
40	626.671	642.705	639.142	646.268	637.360
45	546.054	560.307	559.416	572.332	570.105
50	463.656	476.572	486.817	508.641	513.095
55	379.031	395.065	417.780	450.294	464.992
60	299.305	318.903	357.652	397.738	416.890
65	222.697	253.875	302.423	348.299	367.896
70	152.770	193.747	245.858	295.742	318.903
75	97.096	136.291	195.083	244.967	268.128
80	53.002	90.861	153.216	198.646	220.025
85	16.925	55.674	116.248	156.779	176.822
90	0.000	36.077	88.634	126.492	140.299
95	0.000	32.959	82.843	115.803	123.820
100	0.000	31.178	77.053	105.559	112.685
105	0.000	28.505	72.154	97.541	104.668
110	0.000	26.724	67.255	91.306	98.432
115	0.000	24.497	61.464	85.516	92.197
120	0.000	20.934	55.229	77.499	85.516
125	0.000	17.370	49.884	70.818	77.944
130	0.000	14.253	43.203	63.246	68.145
135	0.000	12.916	34.741	54.784	59.683
140	0.000	10.689	27.169	45.876	50.775
145	0.000	8.463	20.934	35.632	40.531
150	0.000	6.236	16.034	27.169	31.178
155	0.000	4.899	12.916	19.597	22.715
160	0.000	0.000	9.353	14.253	16.034
165	0.000	0.000	6.236	10.244	11.135
170	0.000	0.000	0.000	6.236	6.681
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	357.17	N.A.	12.20
0-30	747.11	N.A.	25.60
0-40	1195.98	N.A.	41.00
0-60	2009.66	N.A.	68.90
0-80	2509.65	N.A.	86.10
0-90	2629.03	N.A.	90.20
10-90	2536.07	N.A.	87.00
20-40	838.81	N.A.	28.80
20-50	1274.17	N.A.	43.70
40-70	1111.1	N.A.	38.10
60-80	499.98	N.A.	17.10
70-80	202.57	N.A.	6.90
80-90	119.39	N.A.	4.10
90-110	146.90	N.A.	5.00
90-120	200.68	N.A.	6.90
90-130	240.30	N.A.	8.20
90-150	279.62	N.A.	9.60
90-180	286.99	N.A.	9.80
110-180	140.08	N.A.	4.80
0-180	2916.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.96
10-20	264.21
20-30	389.94
30-40	448.87
40-50	435.37
50-60	378.32
60-70	297.41
70-80	202.57
80-90	119.39
90-100	80.38
100-110	66.52
110-120	53.78
120-130	39.62
130-140	25.68
140-150	13.64
150-160	5.71
160-170	1.57
170-180	0.09

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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

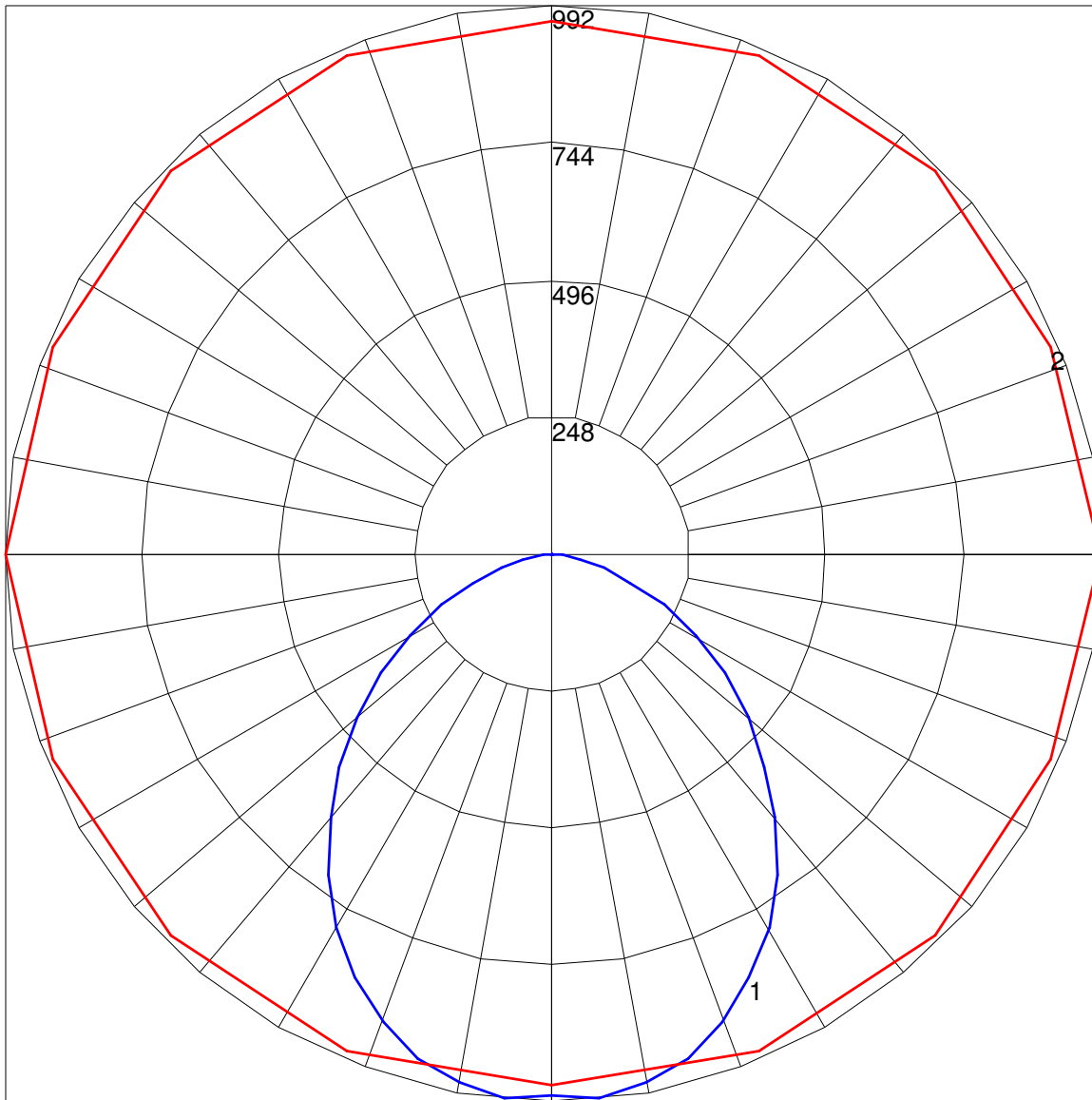
Reflectances

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 = 992.34 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.)