



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-830-(L20)-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-(L20)-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	2004
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	13.1
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	7217	5823	5506
55	6118	4882	4934
65	4804	4171	4482
75	3309	3410	3976
85	1478	2893	3486

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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	676.163	676.163	676.163	676.163	676.163
5	681.978	673.408	673.102	671.571	663.613
10	670.347	662.694	663.307	661.470	654.124
15	651.675	644.329	646.165	644.329	638.207
20	620.453	614.944	620.453	617.699	611.271
25	581.885	579.743	584.640	584.334	574.845
30	539.338	540.257	545.766	545.766	534.135
35	487.302	494.649	497.403	498.322	486.384
40	430.675	441.694	439.245	444.143	438.021
45	375.272	385.067	384.455	393.331	391.801
50	318.644	327.521	334.561	349.560	352.621
55	260.486	271.506	287.117	309.461	319.563
60	205.695	219.164	245.794	273.342	286.504
65	153.047	174.474	207.838	239.366	252.834
70	104.990	133.151	168.964	203.247	219.164
75	66.729	93.665	134.069	168.352	184.269
80	36.425	62.443	105.296	136.518	151.211
85	11.632	38.262	79.891	107.745	121.519
90	0.000	24.794	60.913	86.931	96.420
95	0.000	22.651	56.934	79.585	85.094
100	0.000	21.427	52.954	72.544	77.442
105	0.000	19.590	49.587	67.035	71.932
110	0.000	18.366	46.220	62.749	67.647
115	0.000	16.835	42.241	58.770	63.362
120	0.000	14.386	37.956	53.260	58.770
125	0.000	11.938	34.283	48.669	53.567
130	0.000	9.795	29.691	43.465	46.832
135	0.000	8.877	23.875	37.650	41.017
140	0.000	7.346	18.672	31.528	34.895
145	0.000	5.816	14.386	24.488	27.855
150	0.000	4.285	11.019	18.672	21.427
155	0.000	3.367	8.877	13.468	15.611
160	0.000	0.000	6.428	9.795	11.019
165	0.000	0.000	4.285	7.040	7.652
170	0.000	0.000	0.000	4.285	4.591
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	245.46	N.A.	12.20
0-30	513.45	N.A.	25.60
0-40	821.93	N.A.	41.00
0-60	1381.13	N.A.	68.90
0-80	1724.74	N.A.	86.10
0-90	1806.78	N.A.	90.20
10-90	1742.9	N.A.	87.00
20-40	576.46	N.A.	28.80
20-50	875.67	N.A.	43.70
40-70	763.59	N.A.	38.10
60-80	343.61	N.A.	17.10
70-80	139.22	N.A.	6.90
80-90	82.05	N.A.	4.10
90-110	100.96	N.A.	5.00
90-120	137.92	N.A.	6.90
90-130	165.14	N.A.	8.20
90-150	192.16	N.A.	9.60
90-180	197.23	N.A.	9.80
110-180	96.27	N.A.	4.80
0-180	2004.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	63.89
10-20	181.57
20-30	267.98
30-40	308.48
40-50	299.20
50-60	260.00
60-70	204.39
70-80	139.22
80-90	82.05
90-100	55.24
100-110	45.72
110-120	36.96
120-130	27.23
130-140	17.65
140-150	9.38
150-160	3.92
160-170	1.08
170-180	0.06

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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

X=2H	Y=2H	15.5	16.9	16.0	17.4	18.0	17.7	19.2	18.3	19.7	20.2
	3H	16.7	17.9	17.2	18.5	19.0	20.1	21.4	20.7	21.9	22.5
	4H	17.0	18.2	17.5	18.7	19.3	21.3	22.5	21.8	23.0	23.6
	6H	17.1	18.3	17.7	18.8	19.4	22.4	23.5	23.0	24.1	24.7
	8H	17.1	18.2	17.7	18.8	19.4	23.0	24.1	23.6	24.6	25.3
	12H	17.1	18.2	17.7	18.7	19.4	23.6	24.6	24.2	25.2	25.9

UGR Viewed Endwise

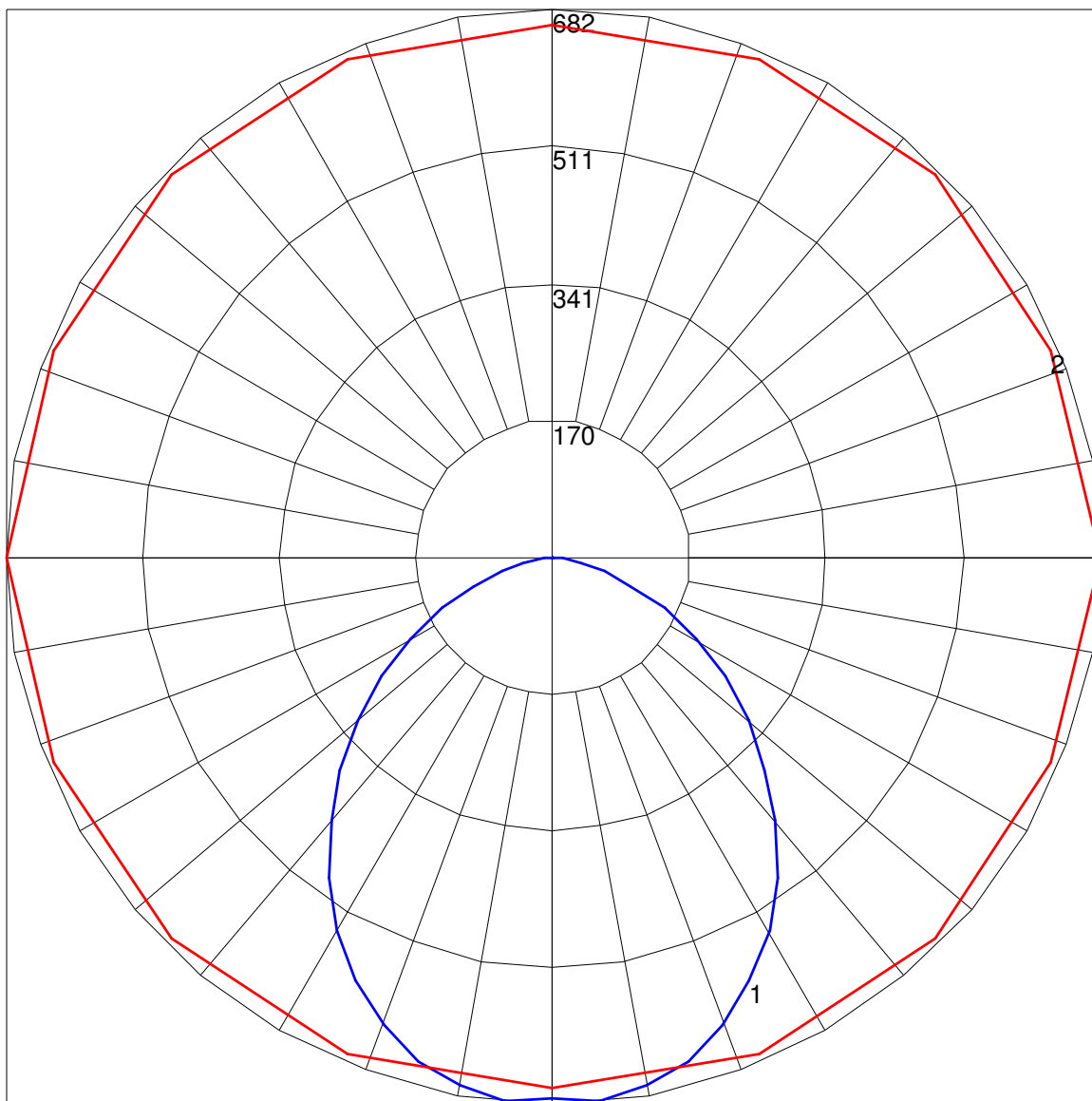
4H	2H	16.3	17.5	16.8	18.1	18.7	18.1	19.3	18.6	19.8	20.5
	3H	17.7	18.7	18.3	19.3	20.0	20.7	21.7	21.3	22.3	22.9
	4H	18.2	19.1	18.7	19.7	20.3	22.0	22.9	22.6	23.5	24.2
	6H	18.4	19.2	19.0	19.9	20.5	23.3	24.1	23.9	24.7	25.4
	8H	18.5	19.3	19.1	19.9	20.5	24.0	24.8	24.6	25.4	26.1
	12H	18.5	19.2	19.1	19.8	20.5	24.7	25.4	25.4	26.1	26.8

8H	4H	18.8	19.6	19.4	20.2	20.9	22.1	22.9	22.7	23.5	24.2
	6H	19.2	19.9	19.9	20.5	21.2	23.6	24.3	24.3	24.9	25.6
	8H	19.4	19.9	20.0	20.6	21.3	24.4	25.0	25.1	25.7	26.4
	12H	19.4	19.9	20.1	20.6	21.4	25.3	25.8	26.0	26.5	27.3

12H	4H	19.0	19.7	19.6	20.3	21.0	22.1	22.8	22.7	23.5	24.2
	6H	19.5	20.1	20.2	20.7	21.5	23.6	24.2	24.3	24.8	25.6
	8H	19.7	20.2	20.4	20.9	21.7	24.5	25.0	25.1	25.7	26.4

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 681.978 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.)