



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-930-(L25)-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] 09-23-2022

[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-L30-930-(L25)-DIM-UNV

[LAMPCAT] HLM 90 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	2098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	16.4
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	7555	6097	5764
55	6405	5111	5165
65	5030	4367	4692
75	3464	3570	4163
85	1548	3028	3649

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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	707.879	707.879	707.879	707.879	707.879
5	713.967	704.995	704.674	703.072	694.740
10	701.790	693.779	694.420	692.497	684.806
15	682.243	674.552	676.474	674.552	668.143
20	649.556	643.788	649.556	646.672	639.943
25	609.179	606.936	612.063	611.743	601.809
30	564.637	565.598	571.366	571.366	559.189
35	510.160	517.851	520.735	521.696	509.198
40	450.876	462.412	459.849	464.976	458.567
45	392.874	403.129	402.488	411.781	410.179
50	333.591	342.884	350.254	365.956	369.161
55	272.705	284.241	300.584	323.977	334.552
60	215.344	229.444	257.323	286.164	299.943
65	160.226	182.658	217.587	250.594	264.693
70	109.915	139.397	176.890	212.780	229.444
75	69.859	98.058	140.358	176.249	192.912
80	38.134	65.372	110.236	142.922	158.303
85	12.177	40.057	83.638	112.799	127.219
90	0.000	25.957	63.770	91.008	100.942
95	0.000	23.713	59.604	83.318	89.086
100	0.000	22.432	55.438	75.947	81.074
105	0.000	20.509	51.913	70.179	75.306
110	0.000	19.227	48.388	65.693	70.820
115	0.000	17.625	44.222	61.527	66.334
120	0.000	15.061	39.736	55.759	61.527
125	0.000	12.498	35.891	50.952	56.079
130	0.000	10.254	31.084	45.504	49.029
135	0.000	9.293	24.995	39.416	42.941
140	0.000	7.691	19.548	33.007	36.532
145	0.000	6.089	15.061	25.636	29.161
150	0.000	4.486	11.536	19.548	22.432
155	0.000	3.525	9.293	14.100	16.343
160	0.000	0.000	6.729	10.254	11.536
165	0.000	0.000	4.486	7.370	8.011
170	0.000	0.000	0.000	4.486	4.807
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	256.98	N.A.	12.20
0-30	537.53	N.A.	25.60
0-40	860.48	N.A.	41.00
0-60	1445.91	N.A.	68.90
0-80	1805.64	N.A.	86.10
0-90	1891.53	N.A.	90.20
10-90	1824.65	N.A.	87.00
20-40	603.50	N.A.	28.80
20-50	916.74	N.A.	43.70
40-70	799.41	N.A.	38.10
60-80	359.73	N.A.	17.10
70-80	145.75	N.A.	6.90
80-90	85.90	N.A.	4.10
90-110	105.69	N.A.	5.00
90-120	144.38	N.A.	6.90
90-130	172.89	N.A.	8.20
90-150	201.18	N.A.	9.60
90-180	206.48	N.A.	9.80
110-180	100.79	N.A.	4.80
0-180	2098.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.88
10-20	190.09
20-30	280.55
30-40	322.95
40-50	313.24
50-60	272.19
60-70	213.98
70-80	145.75
80-90	85.90
90-100	57.83
100-110	47.86
110-120	38.69
120-130	28.50
130-140	18.47
140-150	9.82
150-160	4.11
160-170	1.13
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

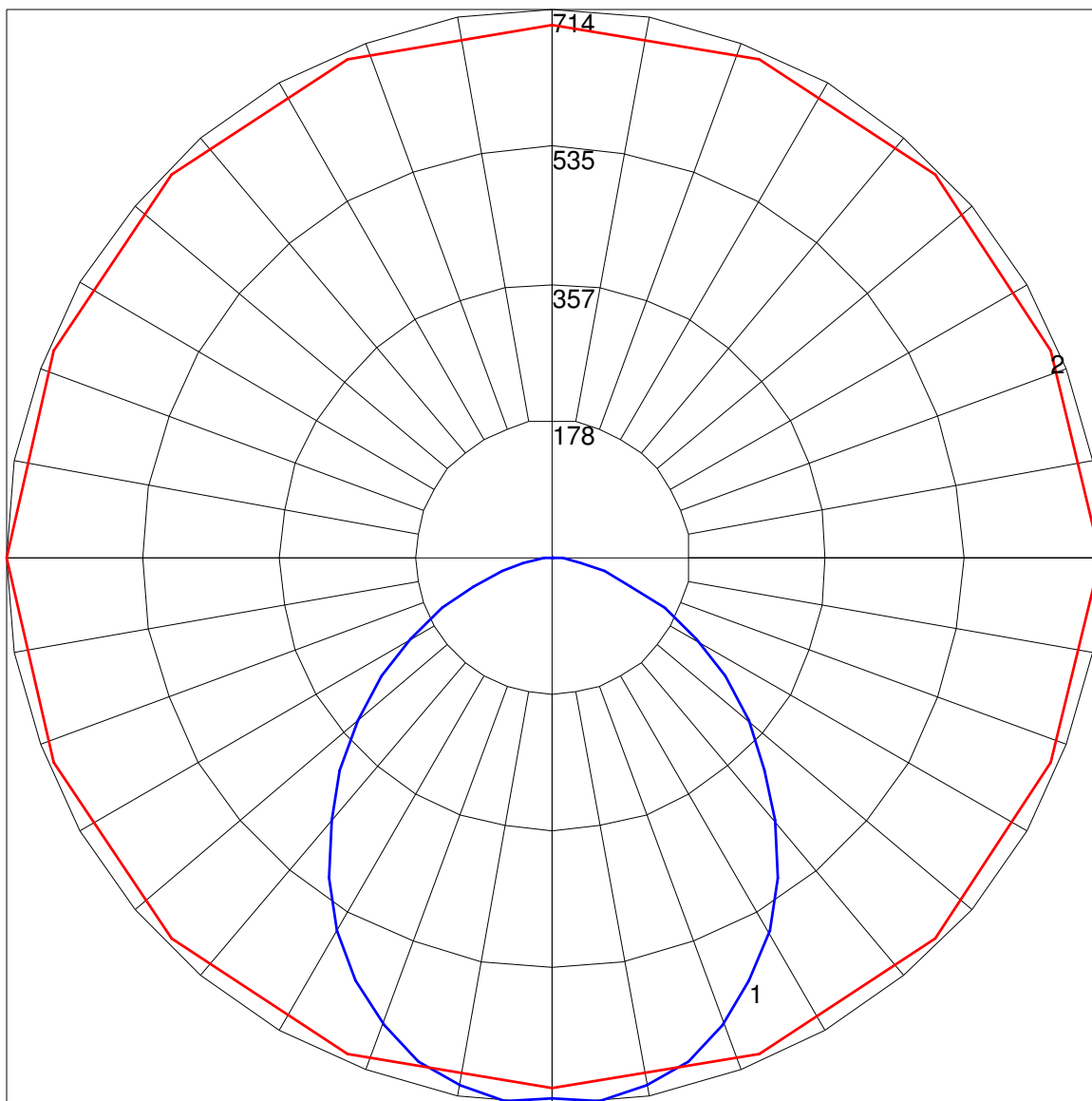
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.7	17.1	16.2	17.6	18.2	17.9	19.4	18.5	19.9	20.4
	3H	16.9	18.1	17.4	18.7	19.2	20.3	21.6	20.9	22.1	22.7
	4H	17.2	18.4	17.7	18.9	19.5	21.5	22.7	22.0	23.2	23.8
	6H	17.3	18.5	17.9	19.0	19.6	22.6	23.7	23.2	24.3	24.9
	8H	17.3	18.4	17.9	19.0	19.6	23.2	24.3	23.8	24.8	25.5
	12H	17.3	18.4	17.9	18.9	19.6	23.8	24.8	24.4	25.4	26.1
4H	2H	16.5	17.7	17.0	18.2	18.9	18.3	19.5	18.8	20.0	20.7
	3H	17.9	18.9	18.5	19.5	20.2	20.9	21.9	21.5	22.5	23.1
	4H	18.4	19.3	18.9	19.9	20.5	22.2	23.1	22.8	23.7	24.4
	6H	18.6	19.4	19.2	20.1	20.7	23.5	24.3	24.1	24.9	25.6
	8H	18.7	19.5	19.3	20.1	20.7	24.2	25.0	24.8	25.6	26.3
	12H	18.7	19.4	19.3	20.0	20.7	24.9	25.6	25.6	26.3	27.0
8H	4H	19.0	19.8	19.6	20.4	21.1	22.3	23.1	22.9	23.7	24.4
	6H	19.4	20.1	20.1	20.7	21.4	23.8	24.5	24.5	25.1	25.8
	8H	19.6	20.1	20.2	20.8	21.5	24.6	25.2	25.3	25.9	26.6
	12H	19.6	20.1	20.3	20.8	21.6	25.5	26.0	26.2	26.7	27.5
12H	4H	19.2	19.9	19.8	20.5	21.2	22.3	23.0	22.9	23.7	24.4
	6H	19.7	20.3	20.4	20.9	21.7	23.8	24.4	24.5	25.0	25.8
	8H	19.9	20.4	20.6	21.1	21.9	24.7	25.2	25.3	25.9	26.6

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 713.967 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.)