



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-930-(L55)-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-L65-930-(L55)-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	4734
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	36.6
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	17048	13757	13006
55	14453	11532	11655
65	11350	9854	10587
75	7816	8055	9393
85	3492	6833	8234

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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	1597.282	1597.282	1597.282	1597.282	1597.282
5	1611.021	1590.775	1590.051	1586.436	1567.636
10	1583.544	1565.467	1566.913	1562.574	1545.221
15	1539.436	1522.082	1526.420	1522.082	1507.620
20	1465.682	1452.666	1465.682	1459.174	1443.989
25	1374.574	1369.512	1381.082	1380.358	1357.943
30	1274.066	1276.235	1289.250	1289.250	1261.773
35	1151.142	1168.496	1175.004	1177.173	1148.973
40	1017.373	1043.403	1037.619	1049.188	1034.727
45	886.495	909.634	908.188	929.157	925.542
50	752.726	773.695	790.326	825.757	832.987
55	615.341	641.371	678.248	731.033	754.895
60	485.909	517.725	580.633	645.710	676.802
65	361.540	412.155	490.971	565.448	597.264
70	248.016	314.540	399.140	480.125	517.725
75	157.631	221.262	316.709	397.694	435.294
80	86.046	147.508	248.739	322.493	357.201
85	27.477	90.385	188.724	254.524	287.062
90	0.000	58.569	143.893	205.355	227.770
95	0.000	53.508	134.493	188.001	201.016
100	0.000	50.616	125.093	171.370	182.939
105	0.000	46.277	117.139	158.354	169.924
110	0.000	43.385	109.185	148.231	159.801
115	0.000	39.769	99.785	138.831	149.677
120	0.000	33.985	89.662	125.816	138.831
125	0.000	28.200	80.985	114.970	126.539
130	0.000	23.139	70.139	102.677	110.631
135	0.000	20.969	56.400	88.939	96.893
140	0.000	17.354	44.108	74.477	82.431
145	0.000	13.739	33.985	57.846	65.800
150	0.000	10.123	26.031	44.108	50.616
155	0.000	7.954	20.969	31.815	36.877
160	0.000	0.000	15.185	23.139	26.031
165	0.000	0.000	10.123	16.631	18.077
170	0.000	0.000	0.000	10.123	10.846
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	579.85	N.A.	12.20
0-30	1212.9	N.A.	25.60
0-40	1941.62	N.A.	41.00
0-60	3262.6	N.A.	68.90
0-80	4074.3	N.A.	86.10
0-90	4268.12	N.A.	90.20
10-90	4117.2	N.A.	87.00
20-40	1361.77	N.A.	28.80
20-50	2068.57	N.A.	43.70
40-70	1803.82	N.A.	38.10
60-80	811.70	N.A.	17.10
70-80	328.87	N.A.	6.90
80-90	193.82	N.A.	4.10
90-110	238.49	N.A.	5.00
90-120	325.80	N.A.	6.90
90-130	390.11	N.A.	8.20
90-150	453.95	N.A.	9.60
90-180	465.91	N.A.	9.80
110-180	227.42	N.A.	4.80
0-180	4734.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.92
10-20	428.93
20-30	633.05
30-40	728.72
40-50	706.80
50-60	614.18
60-70	482.83
70-80	328.87
80-90	193.82
90-100	130.49
100-110	108.00
110-120	87.31
120-130	64.32
130-140	41.68
140-150	22.15
150-160	9.27
160-170	2.56
170-180	0.14

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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	18.5	19.9	19.0	20.4	21.0	20.7	22.2	21.3	22.7	23.2
	3H	19.7	20.9	20.2	21.5	22.0	23.1	24.4	23.7	24.9	25.5
	4H	20.0	21.2	20.5	21.7	22.3	24.3	25.5	24.8	26.0	26.6
	6H	20.1	21.3	20.7	21.8	22.4	25.4	26.5	26.0	27.1	27.7
	8H	20.1	21.2	20.7	21.8	22.4	26.0	27.1	26.6	27.6	28.3
	12H	20.1	21.2	20.7	21.7	22.4	26.6	27.6	27.2	28.2	28.9

UGR Viewed Endwise

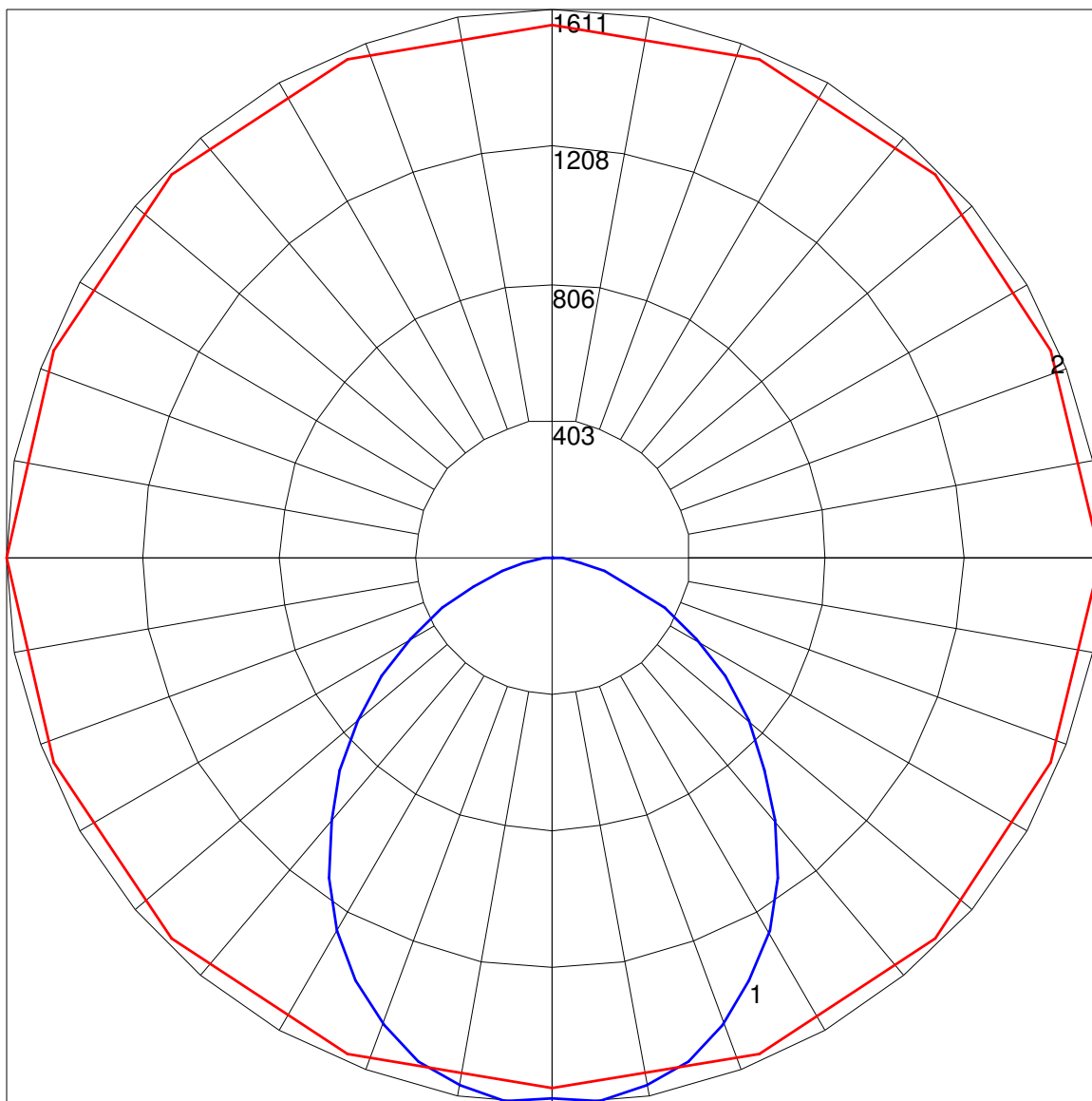
4H	2H	19.3	20.5	19.8	21.0	21.7	21.1	22.3	21.6	22.8	23.5
	3H	20.7	21.7	21.3	22.3	23.0	23.7	24.7	24.3	25.3	25.9
	4H	21.2	22.1	21.7	22.7	23.3	25.0	25.9	25.6	26.5	27.2
	6H	21.4	22.2	22.0	22.9	23.5	26.3	27.1	26.9	27.7	28.4
	8H	21.5	22.2	22.1	22.9	23.5	27.0	27.8	27.6	28.4	29.1
	12H	21.5	22.2	22.1	22.8	23.5	27.7	28.4	28.3	29.1	29.8

8H	4H	21.8	22.6	22.4	23.2	23.9	25.1	25.9	25.7	26.5	27.2
	6H	22.2	22.9	22.9	23.5	24.2	26.6	27.3	27.3	27.9	28.6
	8H	22.4	22.9	23.0	23.6	24.3	27.4	28.0	28.1	28.7	29.4
	12H	22.4	22.9	23.1	23.6	24.4	28.3	28.8	29.0	29.5	30.3

12H	4H	22.0	22.7	22.6	23.3	24.0	25.1	25.8	25.7	26.5	27.2
	6H	22.5	23.1	23.2	23.7	24.5	26.6	27.2	27.3	27.8	28.6
	8H	22.7	23.2	23.4	23.9	24.7	27.5	28.0	28.1	28.7	29.4

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 1611.021 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.)