



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-930-(L60)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 01-07-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L65-930-(L60)-DIM-UNV

[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	5009
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	41.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17517	14811	14785
55	14457	12675	13016
65	11906	10646	10965
75	8045	8748	8984
85	4721	7514	7367

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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	1604.320	1604.320	1604.320	1604.320	1604.320
5	1621.933	1598.193	1598.959	1595.130	1579.049
10	1595.130	1575.220	1579.049	1576.751	1562.201
15	1548.417	1533.867	1544.588	1549.183	1533.867
20	1477.965	1474.136	1492.515	1500.173	1490.983
25	1395.260	1400.621	1426.657	1444.270	1437.378
30	1300.303	1307.961	1352.376	1379.179	1377.647
35	1184.669	1198.453	1262.779	1300.303	1305.663
40	1061.378	1071.333	1152.506	1209.174	1222.193
45	915.879	941.150	1034.576	1109.622	1128.001
50	765.019	805.606	919.708	1001.647	1024.620
55	620.286	673.125	801.777	887.545	920.474
60	499.292	548.302	688.441	774.209	808.669
65	383.658	437.263	582.762	660.872	690.738
70	268.791	340.774	482.445	550.599	579.699
75	165.410	257.304	389.785	454.110	479.381
80	91.894	177.662	310.909	370.640	386.721
85	39.055	122.526	248.114	299.422	310.143
90	5.360	84.236	192.212	237.393	251.943
95	0.766	57.434	153.923	188.383	203.699
100	0.000	37.523	119.462	153.923	166.175
105	0.000	26.802	92.660	125.589	135.544
110	0.000	18.379	71.218	102.615	111.039
115	0.000	15.316	58.200	85.768	91.894
120	0.000	11.487	44.416	70.452	76.578
125	0.000	6.892	32.929	55.902	62.794
130	0.000	4.595	23.739	43.650	49.776
135	0.000	2.297	17.613	34.460	39.055
140	0.000	2.297	12.253	26.802	30.631
145	0.000	0.000	7.658	16.847	21.442
150	0.000	0.000	5.360	12.253	15.316
155	0.000	0.000	3.829	6.126	9.955
160	0.000	0.000	1.532	4.595	5.360
165	0.000	0.000	0.000	1.532	2.297
170	0.000	0.000	0.000	0.000	0.000
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	586.66	N.A.	11.70
0-30	1241.95	N.A.	24.80
0-40	2023.93	N.A.	40.40
0-60	3518.46	N.A.	70.20
0-80	4448.69	N.A.	88.80
0-90	4682.5	N.A.	93.50
10-90	4530.61	N.A.	90.50
20-40	1437.27	N.A.	28.70
20-50	2229.6	N.A.	44.50
40-70	2045.53	N.A.	40.80
60-80	930.23	N.A.	18.60
70-80	379.23	N.A.	7.60
80-90	233.80	N.A.	4.70
90-110	223.12	N.A.	4.50
90-120	274.27	N.A.	5.50
90-130	303.30	N.A.	6.10
90-150	324.04	N.A.	6.50
90-180	326.21	N.A.	6.50
110-180	103.09	N.A.	2.10
0-180	5008.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	151.89
10-20	434.77
20-30	655.30
30-40	781.97
40-50	792.33
50-60	702.20
60-70	551.00
70-80	379.23
80-90	233.80
90-100	139.20
100-110	83.91
110-120	51.15
120-130	29.04
130-140	14.67
140-150	6.06
150-160	1.89
160-170	0.28
170-180	0.00

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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	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	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	18.4	19.9	18.8	20.3	20.8	21.8	23.3	22.2	23.7	24.2
	3H	19.6	20.9	20.0	21.4	21.9	24.0	25.3	24.4	25.8	26.3
	4H	19.9	21.2	20.4	21.7	22.2	25.0	26.3	25.5	26.8	27.3
	6H	20.1	21.3	20.6	21.8	22.3	26.0	27.2	26.6	27.7	28.3
	8H	20.1	21.2	20.6	21.8	22.3	26.6	27.7	27.1	28.2	28.8
	12H	20.1	21.2	20.6	21.7	22.3	27.1	28.2	27.7	28.7	29.3

UGR Viewed Endwise

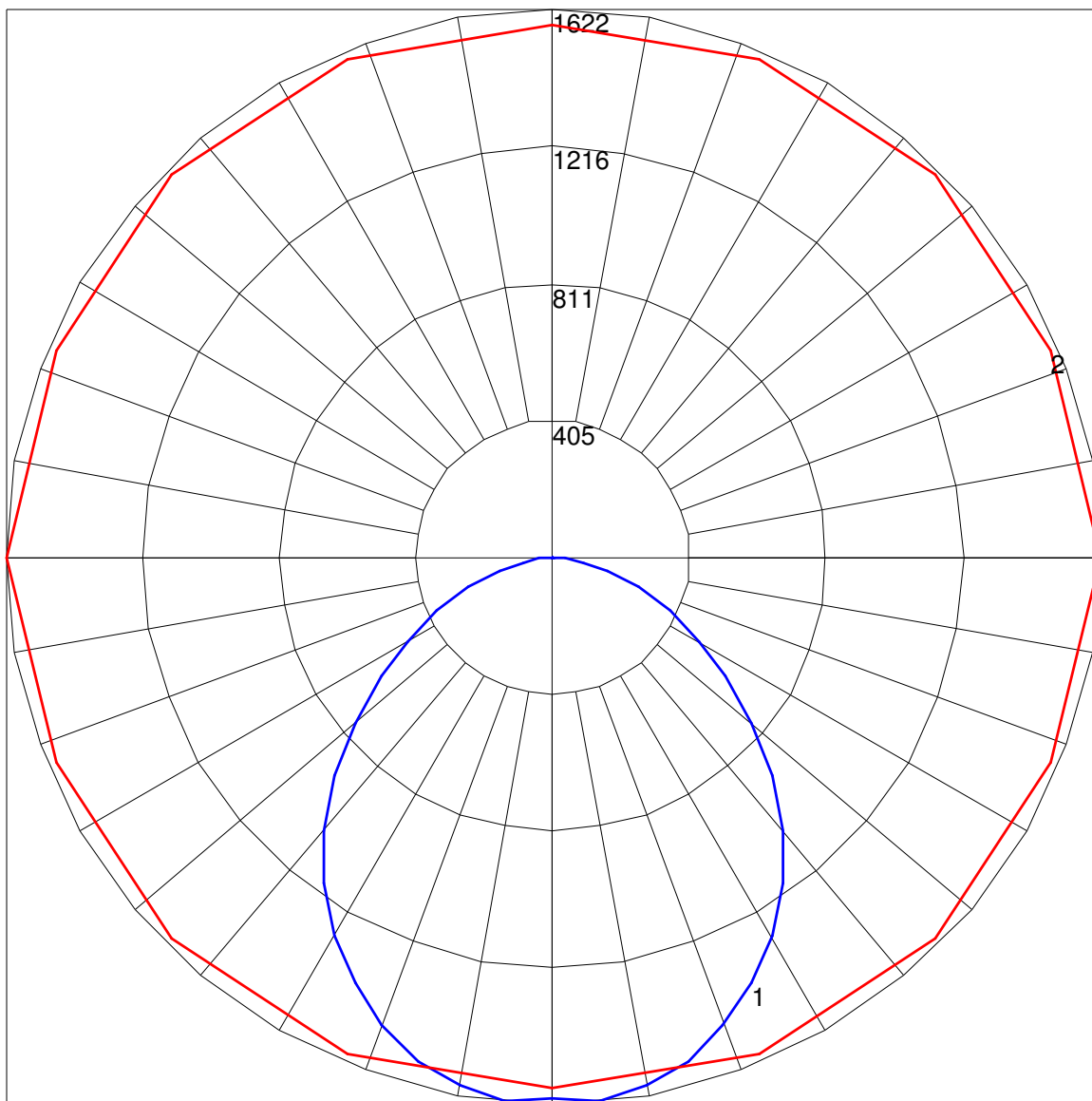
4H	2H	19.4	20.7	19.9	21.2	21.7	22.1	23.4	22.6	23.9	24.4
	3H	20.9	22.0	21.4	22.5	23.0	24.5	25.6	25.0	26.1	26.7
	4H	21.3	22.3	21.9	22.9	23.5	25.7	26.7	26.2	27.2	27.8
	6H	21.6	22.5	22.2	23.0	23.7	26.9	27.8	27.5	28.4	29.0
	8H	21.7	22.5	22.2	23.1	23.7	27.5	28.4	28.1	28.9	29.5
	12H	21.7	22.4	22.3	23.0	23.7	28.2	29.0	28.8	29.6	30.2

8H	4H	22.1	22.9	22.7	23.5	24.1	25.9	26.7	26.4	27.2	27.9
	6H	22.6	23.3	23.2	23.9	24.5	27.2	27.9	27.8	28.5	29.1
	8H	22.7	23.3	23.3	24.0	24.6	28.0	28.6	28.6	29.2	29.9
	12H	22.8	23.4	23.4	24.0	24.7	28.8	29.4	29.4	30.0	30.7

12H	4H	22.3	23.0	22.9	23.6	24.3	25.8	26.6	26.4	27.2	27.8
	6H	22.9	23.5	23.5	24.1	24.8	27.3	27.9	27.9	28.5	29.2
	8H	23.1	23.7	23.7	24.3	25.0	28.0	28.6	28.7	29.2	29.9

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 1621.933 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.)