

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-935-(L20)-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

[ISSUE DATE] 07-06-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-56 LED 22"ARRAYS 4'SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L30-935-(L20)-DIM-UNV

[LAMPCAT] HLM 90 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	1783
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	14.07
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	6235	5272	5263
55	5146	4512	4633
65	4238	3790	3903
75	2864	3114	3198
85	1680	2675	2622

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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	571.073	571.073	571.073	571.073	571.073
5	577.342	568.892	569.164	567.801	562.077
10	567.801	560.714	562.077	561.259	556.080
15	551.174	545.994	549.811	551.446	545.994
20	526.095	524.733	531.275	534.001	530.729
25	496.656	498.564	507.832	514.102	511.648
30	462.855	465.581	481.391	490.932	490.386
35	421.694	426.601	449.498	462.855	464.763
40	377.807	381.351	410.245	430.417	435.051
45	326.016	335.011	368.267	394.980	401.523
50	272.316	286.763	327.379	356.546	364.723
55	220.797	239.605	285.400	315.930	327.651
60	177.728	195.173	245.057	275.587	287.853
65	136.567	155.648	207.440	235.244	245.875
70	95.678	121.302	171.731	195.991	206.349
75	58.879	91.590	138.747	161.645	170.640
80	32.711	63.240	110.671	131.933	137.657
85	13.902	43.614	88.319	106.582	110.398
90	1.908	29.985	68.420	84.502	89.682
95	0.273	20.444	54.790	67.057	72.508
100	0.000	13.357	42.524	54.790	59.152
105	0.000	9.541	32.983	44.704	48.248
110	0.000	6.542	25.351	36.527	39.525
115	0.000	5.452	20.717	30.530	32.711
120	0.000	4.089	15.810	25.078	27.259
125	0.000	2.453	11.721	19.899	22.352
130	0.000	1.636	8.450	15.538	17.718
135	0.000	0.818	6.270	12.266	13.902
140	0.000	0.818	4.361	9.541	10.904
145	0.000	0.000	2.726	5.997	7.632
150	0.000	0.000	1.908	4.361	5.452
155	0.000	0.000	1.363	2.181	3.544
160	0.000	0.000	0.545	1.636	1.908
165	0.000	0.000	0.000	0.545	0.818
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	208.83	N.A.	11.70
0-30	442.09	N.A.	24.80
0-40	720.44	N.A.	40.40
0-60	1252.43	N.A.	70.20
0-80	1583.55	N.A.	88.80
0-90	1666.78	N.A.	93.50
10-90	1612.71	N.A.	90.50
20-40	511.61	N.A.	28.70
20-50	793.65	N.A.	44.50
40-70	728.13	N.A.	40.80
60-80	331.12	N.A.	18.60
70-80	134.99	N.A.	7.60
80-90	83.22	N.A.	4.70
90-110	79.42	N.A.	4.50
90-120	97.63	N.A.	5.50
90-130	107.96	N.A.	6.10
90-150	115.34	N.A.	6.50
90-180	116.12	N.A.	6.50
110-180	36.70	N.A.	2.10
0-180	1782.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.07
10-20	154.76
20-30	233.26
30-40	278.35
40-50	282.04
50-60	249.96
60-70	196.13
70-80	134.99
80-90	83.22
90-100	49.55
100-110	29.87
110-120	18.21
120-130	10.34
130-140	5.22
140-150	2.16
150-160	0.67
160-170	0.10
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

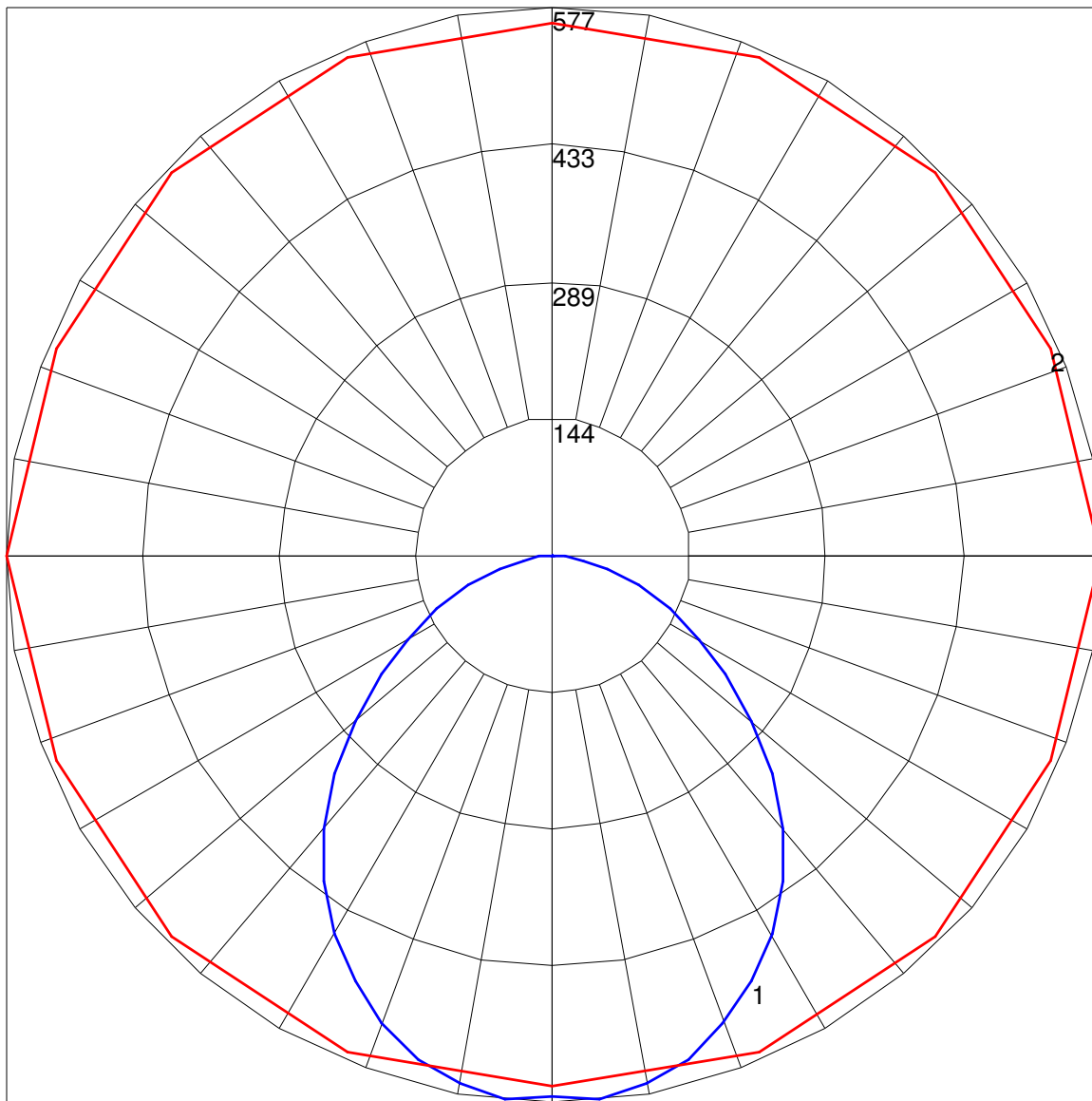
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.8	16.3	15.2	16.7	17.2	18.2	19.6	18.6	20.1	20.6
	3H	16.0	17.3	16.4	17.8	18.3	20.4	21.7	20.8	22.2	22.7
	4H	16.3	17.6	16.8	18.1	18.6	21.4	22.7	21.9	23.2	23.7
	6H	16.5	17.7	17.0	18.2	18.7	22.4	23.6	22.9	24.1	24.7
	8H	16.5	17.6	17.0	18.2	18.7	23.0	24.1	23.5	24.6	25.2
	12H	16.5	17.6	17.0	18.1	18.7	23.5	24.6	24.1	25.1	25.7
4H	2H	15.8	17.1	16.3	17.6	18.1	18.5	19.8	19.0	20.2	20.8
	3H	17.3	18.4	17.8	18.9	19.4	20.9	22.0	21.4	22.5	23.1
	4H	17.7	18.7	18.3	19.3	19.9	22.1	23.1	22.6	23.6	24.2
	6H	18.0	18.9	18.6	19.4	20.1	23.3	24.2	23.9	24.8	25.4
	8H	18.1	18.9	18.6	19.5	20.1	23.9	24.8	24.5	25.3	25.9
	12H	18.1	18.8	18.7	19.4	20.1	24.6	25.4	25.2	26.0	26.6
8H	4H	18.5	19.3	19.1	19.9	20.5	22.2	23.1	22.8	23.6	24.3
	6H	19.0	19.7	19.6	20.3	20.9	23.6	24.3	24.2	24.9	25.5
	8H	19.1	19.7	19.7	20.4	21.0	24.4	25.0	25.0	25.6	26.3
	12H	19.2	19.8	19.8	20.4	21.1	25.2	25.8	25.8	26.4	27.1
12H	4H	18.7	19.4	19.3	20.0	20.7	22.2	23.0	22.8	23.6	24.2
	6H	19.3	19.9	19.9	20.5	21.2	23.7	24.3	24.3	24.9	25.5
	8H	19.5	20.1	20.1	20.7	21.4	24.4	25.0	25.1	25.6	26.3

Maximum UGR = 27.1

POLAR GRAPH



Maximum Candela = 577.342 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.)