



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-2-L32-940-(L30)-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] 09-20-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 22.5" LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-2-L32-940-(L30)--DIM-UNV

[LAMPCAT] HLM 90 CRI 4000K 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	2638
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	20.8
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)	1.88 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	17821	15255	15444
55	14552	13005	13596
65	11782	10869	11454
75	7689	8869	9385
85	3982	7531	7696

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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	844.918	844.918	844.918	844.918	844.918
5	854.194	841.692	842.095	840.079	831.609
10	840.079	829.593	831.609	830.399	822.737
15	815.477	807.815	813.461	815.881	807.815
20	778.373	776.357	786.036	790.069	785.230
25	734.817	737.640	751.352	760.628	756.998
30	684.807	688.840	712.232	726.347	725.541
35	623.909	631.168	665.046	684.807	687.630
40	558.977	564.220	606.970	636.814	643.670
45	482.350	495.659	544.861	584.385	594.064
50	402.899	424.274	484.366	527.519	539.618
55	326.675	354.503	422.258	467.427	484.769
60	262.953	288.764	362.569	407.739	425.887
65	202.054	230.286	306.913	348.050	363.779
70	141.559	179.470	254.080	289.974	305.300
75	87.113	135.510	205.281	239.158	252.467
80	48.396	93.566	163.741	195.198	203.668
85	20.568	64.528	130.670	157.691	163.337
90	2.823	44.363	101.229	125.024	132.686
95	0.403	30.248	81.064	99.212	107.278
100	0.000	19.762	62.915	81.064	87.517
105	0.000	14.116	48.800	66.142	71.385
110	0.000	9.679	37.507	54.043	58.479
115	0.000	8.066	30.651	45.170	48.396
120	0.000	6.050	23.392	37.104	40.330
125	0.000	3.630	17.342	29.441	33.071
130	0.000	2.420	12.502	22.988	26.215
135	0.000	1.210	9.276	18.149	20.568
140	0.000	1.210	6.453	14.116	16.132
145	0.000	0.000	4.033	8.873	11.292
150	0.000	0.000	2.823	6.453	8.066
155	0.000	0.000	2.017	3.226	5.243
160	0.000	0.000	0.807	2.420	2.823
165	0.000	0.000	0.000	0.807	1.210
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	308.96	N.A.	11.70
0-30	654.08	N.A.	24.80
0-40	1065.91	N.A.	40.40
0-60	1853.01	N.A.	70.20
0-80	2342.91	N.A.	88.80
0-90	2466.05	N.A.	93.50
10-90	2386.05	N.A.	90.50
20-40	756.94	N.A.	28.70
20-50	1174.23	N.A.	44.50
40-70	1077.28	N.A.	40.80
60-80	489.91	N.A.	18.60
70-80	199.72	N.A.	7.60
80-90	123.13	N.A.	4.70
90-110	117.50	N.A.	4.50
90-120	144.44	N.A.	5.50
90-130	159.74	N.A.	6.10
90-150	170.65	N.A.	6.50
90-180	171.80	N.A.	6.50
110-180	54.29	N.A.	2.10
0-180	2637.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.99
10-20	228.97
20-30	345.11
30-40	411.83
40-50	417.28
50-60	369.82
60-70	290.18
70-80	199.72
80-90	123.13
90-100	73.31
100-110	44.19
110-120	26.94
120-130	15.29
130-140	7.73
140-150	3.19
150-160	1.00
160-170	0.15
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

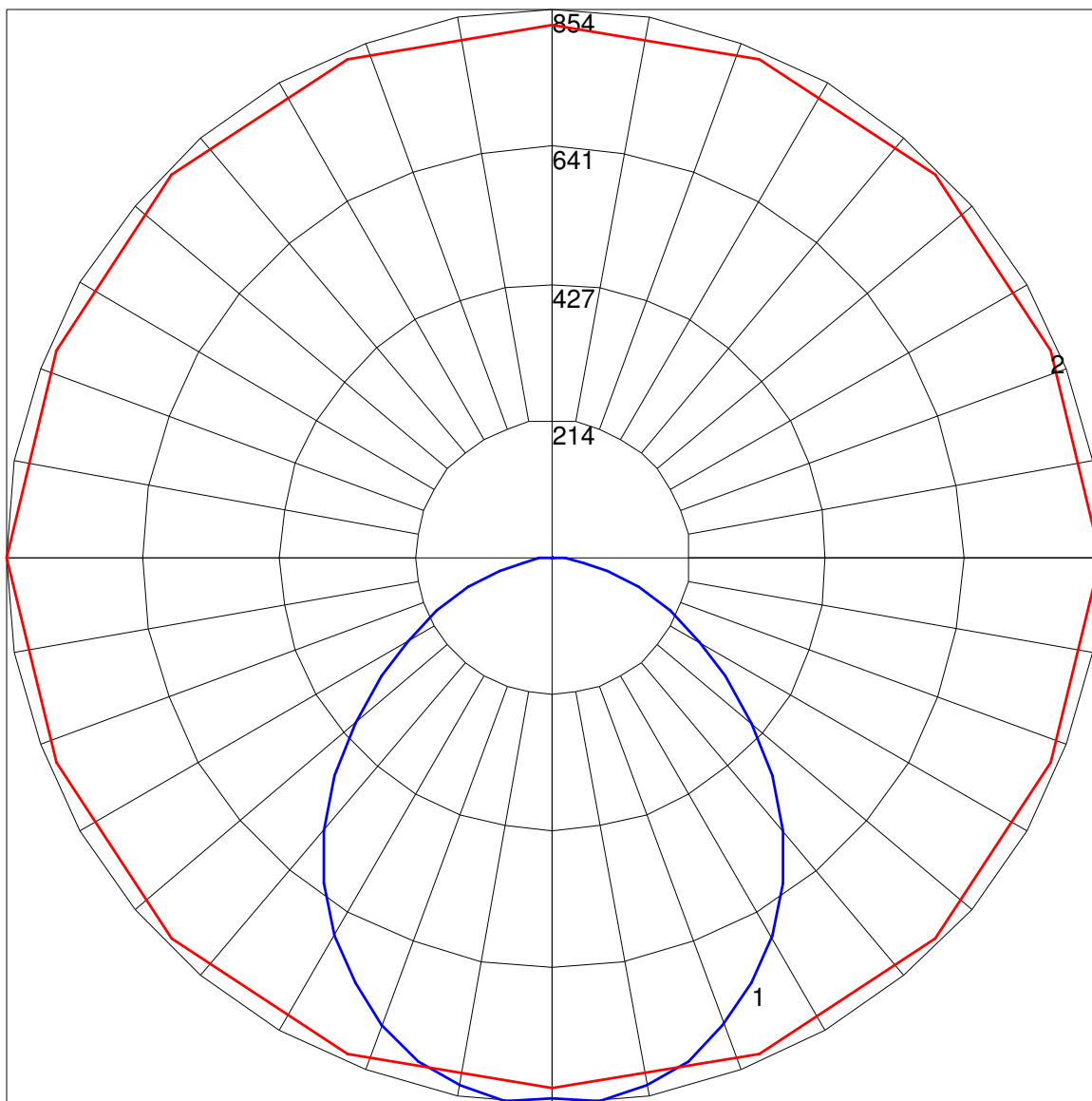
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UGR TABLE - CORRECTED

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	18.5	20.0	19.0	20.5	20.9	21.8	23.3	22.3	23.8	24.3
	3H	19.7	21.1	20.2	21.5	22.1	24.0	25.4	24.5	25.8	26.3
	4H	20.1	21.3	20.6	21.8	22.4	25.0	26.3	25.5	26.8	27.3
	6H	20.2	21.4	20.7	21.9	22.5	26.0	27.2	26.5	27.7	28.3
	8H	20.3	21.4	20.8	21.9	22.5	26.5	27.6	27.0	28.2	28.7
	12H	20.3	21.4	20.8	21.9	22.5	27.0	28.1	27.6	28.6	29.2
4H	2H	19.6	20.9	20.1	21.3	21.9	22.2	23.4	22.7	23.9	24.5
	3H	21.0	22.1	21.5	22.6	23.2	24.5	25.6	25.1	26.2	26.7
	4H	21.5	22.5	22.0	23.0	23.6	25.7	26.7	26.2	27.2	27.8
	6H	21.8	22.6	22.3	23.2	23.8	26.9	27.8	27.5	28.3	28.9
	8H	21.8	22.6	22.4	23.2	23.8	27.5	28.3	28.1	28.9	29.5
	12H	21.8	22.6	22.4	23.2	23.8	28.1	28.9	28.7	29.5	30.1
8H	4H	22.2	23.0	22.8	23.6	24.2	25.9	26.7	26.4	27.3	27.9
	6H	22.7	23.4	23.3	24.0	24.6	27.2	27.9	27.8	28.5	29.1
	8H	22.8	23.5	23.5	24.1	24.7	27.9	28.5	28.5	29.2	29.8
	12H	22.9	23.5	23.5	24.1	24.8	28.7	29.3	29.3	29.9	30.6
12H	4H	22.4	23.2	23.0	23.7	24.4	25.9	26.6	26.5	27.2	27.8
	6H	23.0	23.6	23.6	24.2	24.9	27.2	27.9	27.9	28.4	29.1
	8H	23.2	23.8	23.8	24.4	25.1	28.0	28.6	28.6	29.2	29.9

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 854.194 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.)