



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-840-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] 08-24-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L30-840-DIM-UNV

[LAMPCAT] HLM 80 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	3003
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	19.7
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	10502	8879	8864
55	8667	7599	7803
65	7138	6383	6574
75	4823	5245	5386
85	2830	4505	4417

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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	961.823	961.823	961.823	961.823	961.823
5	972.382	958.150	958.609	956.314	946.673
10	956.314	944.377	946.673	945.295	936.572
15	928.308	919.585	926.013	928.768	919.585
20	886.071	883.775	894.794	899.385	893.876
25	836.488	839.701	855.311	865.870	861.738
30	779.559	784.150	810.778	826.846	825.928
35	710.234	718.498	757.063	779.559	782.772
40	636.318	642.287	690.952	724.925	732.730
45	549.088	564.239	620.250	665.242	676.260
50	458.645	482.978	551.384	600.508	614.281
55	371.874	403.552	480.682	532.102	551.843
60	299.336	328.719	412.735	464.154	484.814
65	230.011	262.148	349.378	396.207	414.112
70	161.146	204.301	289.236	330.096	347.542
75	99.166	154.259	233.684	272.249	287.399
80	55.092	106.512	186.396	222.206	231.848
85	23.414	73.457	148.750	179.510	185.937
90	3.214	50.501	115.235	142.322	151.045
95	0.459	34.433	92.280	112.940	122.122
100	0.000	22.496	71.620	92.280	99.626
105	0.000	16.069	55.552	75.293	81.261
110	0.000	11.018	42.697	61.520	66.570
115	0.000	9.182	34.892	51.420	55.092
120	0.000	6.887	26.628	42.238	45.910
125	0.000	4.132	19.741	33.515	37.647
130	0.000	2.755	14.232	26.169	29.842
135	0.000	1.377	10.559	20.660	23.414
140	0.000	1.377	7.346	16.069	18.364
145	0.000	0.000	4.591	10.100	12.855
150	0.000	0.000	3.214	7.346	9.182
155	0.000	0.000	2.296	3.673	5.968
160	0.000	0.000	0.918	2.755	3.214
165	0.000	0.000	0.000	0.918	1.377
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	351.71	N.A.	11.70
0-30	744.58	N.A.	24.80
0-40	1213.39	N.A.	40.40
0-60	2109.39	N.A.	70.20
0-80	2667.09	N.A.	88.80
0-90	2807.25	N.A.	93.50
10-90	2716.19	N.A.	90.50
20-40	861.67	N.A.	28.70
20-50	1336.69	N.A.	44.50
40-70	1226.34	N.A.	40.80
60-80	557.69	N.A.	18.60
70-80	227.36	N.A.	7.60
80-90	140.17	N.A.	4.70
90-110	133.76	N.A.	4.50
90-120	164.43	N.A.	5.50
90-130	181.84	N.A.	6.10
90-150	194.27	N.A.	6.50
90-180	195.57	N.A.	6.50
110-180	61.80	N.A.	2.10
0-180	3002.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.06
10-20	260.65
20-30	392.86
30-40	468.81
40-50	475.02
50-60	420.99
60-70	330.33
70-80	227.36
80-90	140.17
90-100	83.46
100-110	50.31
110-120	30.67
120-130	17.41
130-140	8.80
140-150	3.63
150-160	1.14
160-170	0.17
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

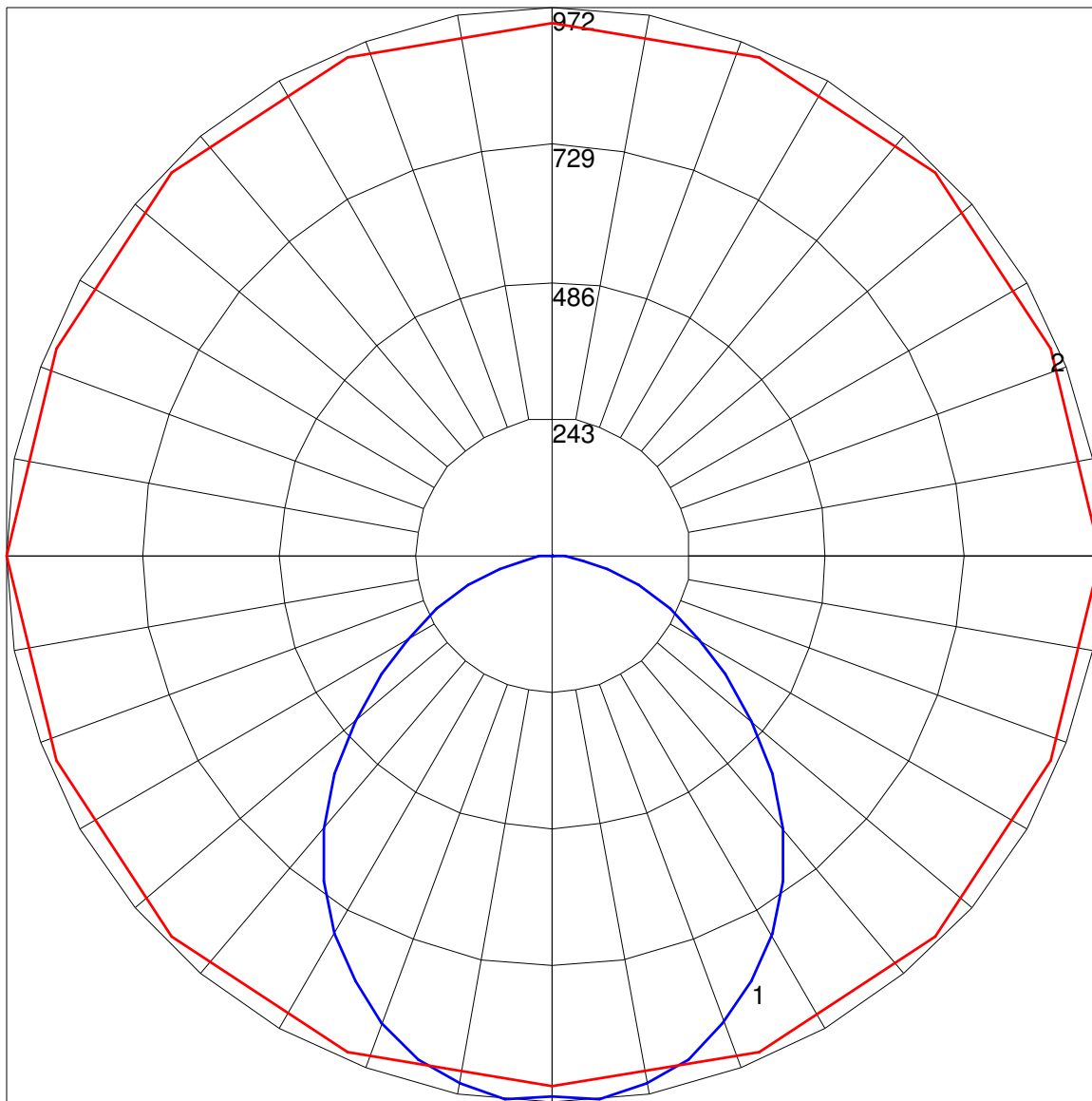
Reflectances

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	16.6	18.1	17.0	18.5	19.0	20.0	21.5	20.4	21.9	22.4
	3H	17.8	19.1	18.2	19.6	20.1	22.2	23.5	22.6	24.0	24.5
	4H	18.1	19.4	18.6	19.9	20.4	23.2	24.5	23.7	25.0	25.5
	6H	18.3	19.5	18.8	20.0	20.5	24.2	25.4	24.8	25.9	26.5
	8H	18.3	19.4	18.8	20.0	20.5	24.8	25.9	25.3	26.4	27.0
	12H	18.3	19.4	18.8	19.9	20.5	25.3	26.4	25.9	26.9	27.5
4H	2H	17.6	18.9	18.1	19.4	19.9	20.3	21.6	20.8	22.1	22.6
	3H	19.1	20.2	19.6	20.7	21.2	22.7	23.8	23.2	24.3	24.9
	4H	19.5	20.5	20.1	21.1	21.7	23.9	24.9	24.4	25.4	26.0
	6H	19.8	20.7	20.4	21.2	21.9	25.1	26.0	25.7	26.6	27.2
	8H	19.9	20.7	20.4	21.3	21.9	25.7	26.6	26.3	27.1	27.7
	12H	19.9	20.6	20.5	21.2	21.9	26.4	27.2	27.0	27.8	28.4
8H	4H	20.3	21.1	20.9	21.7	22.3	24.1	24.9	24.6	25.4	26.1
	6H	20.8	21.5	21.4	22.1	22.7	25.4	26.1	26.0	26.7	27.3
	8H	20.9	21.5	21.5	22.2	22.8	26.2	26.8	26.8	27.4	28.1
	12H	21.0	21.6	21.6	22.2	22.9	27.0	27.6	27.6	28.2	28.9
12H	4H	20.5	21.2	21.1	21.8	22.5	24.0	24.8	24.6	25.4	26.0
	6H	21.1	21.7	21.7	22.3	23.0	25.5	26.1	26.1	26.7	27.4
	8H	21.3	21.9	21.9	22.5	23.2	26.2	26.8	26.9	27.4	28.1

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 972.382 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.)