



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-P72-840-(P45)-POE PR_.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] 11-08-2021

[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-P72-840-(P45)-POE PR

[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	4723
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	169
Total Luminaire Watts	28
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	16516	13965	13940
55	13631	11951	12272
65	11226	10038	10339
75	7586	8249	8471
85	4451	7085	6946

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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	1512.717	1512.717	1512.717	1512.717	1512.717
5	1529.325	1506.941	1507.663	1504.053	1488.889
10	1504.053	1485.279	1488.889	1486.723	1473.004
15	1460.007	1446.288	1456.397	1460.729	1446.288
20	1393.577	1389.967	1407.296	1414.517	1405.852
25	1315.595	1320.649	1345.199	1361.807	1355.308
30	1226.059	1233.280	1275.159	1300.432	1298.987
35	1117.028	1130.025	1190.678	1226.059	1231.114
40	1000.776	1010.163	1086.702	1140.134	1152.409
45	863.585	887.413	975.504	1046.266	1063.596
50	721.339	759.608	867.195	944.456	966.117
55	584.869	634.691	755.998	836.868	867.917
60	470.784	516.996	649.133	730.003	762.496
65	361.752	412.297	549.488	623.138	651.299
70	253.443	321.317	454.898	519.162	546.600
75	155.965	242.612	367.529	428.182	452.010
80	86.647	167.518	293.157	349.477	364.641
85	36.825	115.530	233.948	282.326	292.435
90	5.054	79.427	181.237	223.839	237.558
95	0.722	54.155	145.134	177.627	192.068
100	0.000	35.381	112.641	145.134	156.687
105	0.000	25.272	87.369	118.418	127.805
110	0.000	17.329	67.152	96.756	104.699
115	0.000	14.441	54.877	80.871	86.647
120	0.000	10.831	41.880	66.430	72.206
125	0.000	6.499	31.049	52.710	59.209
130	0.000	4.332	22.384	41.157	46.934
135	0.000	2.166	16.607	32.493	36.825
140	0.000	2.166	11.553	25.272	28.882
145	0.000	0.000	7.221	15.885	20.218
150	0.000	0.000	5.054	11.553	14.441
155	0.000	0.000	3.610	5.776	9.387
160	0.000	0.000	1.444	4.332	5.054
165	0.000	0.000	0.000	1.444	2.166
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	553.16	N.A.	11.70
0-30	1171.04	N.A.	24.80
0-40	1908.37	N.A.	40.40
0-60	3317.57	N.A.	70.20
0-80	4194.69	N.A.	88.80
0-90	4415.14	N.A.	93.50
10-90	4271.92	N.A.	90.50
20-40	1355.21	N.A.	28.70
20-50	2102.3	N.A.	44.50
40-70	1928.74	N.A.	40.80
60-80	877.12	N.A.	18.60
70-80	357.58	N.A.	7.60
80-90	220.45	N.A.	4.70
90-110	210.38	N.A.	4.50
90-120	258.61	N.A.	5.50
90-130	285.99	N.A.	6.10
90-150	305.53	N.A.	6.50
90-180	307.58	N.A.	6.50
110-180	97.20	N.A.	2.10
0-180	4722.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.21
10-20	409.95
20-30	617.88
30-40	737.32
40-50	747.09
50-60	662.11
60-70	519.54
70-80	357.58
80-90	220.45
90-100	131.26
100-110	79.12
110-120	48.23
120-130	27.38
130-140	13.83
140-150	5.71
150-160	1.79
160-170	0.26
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

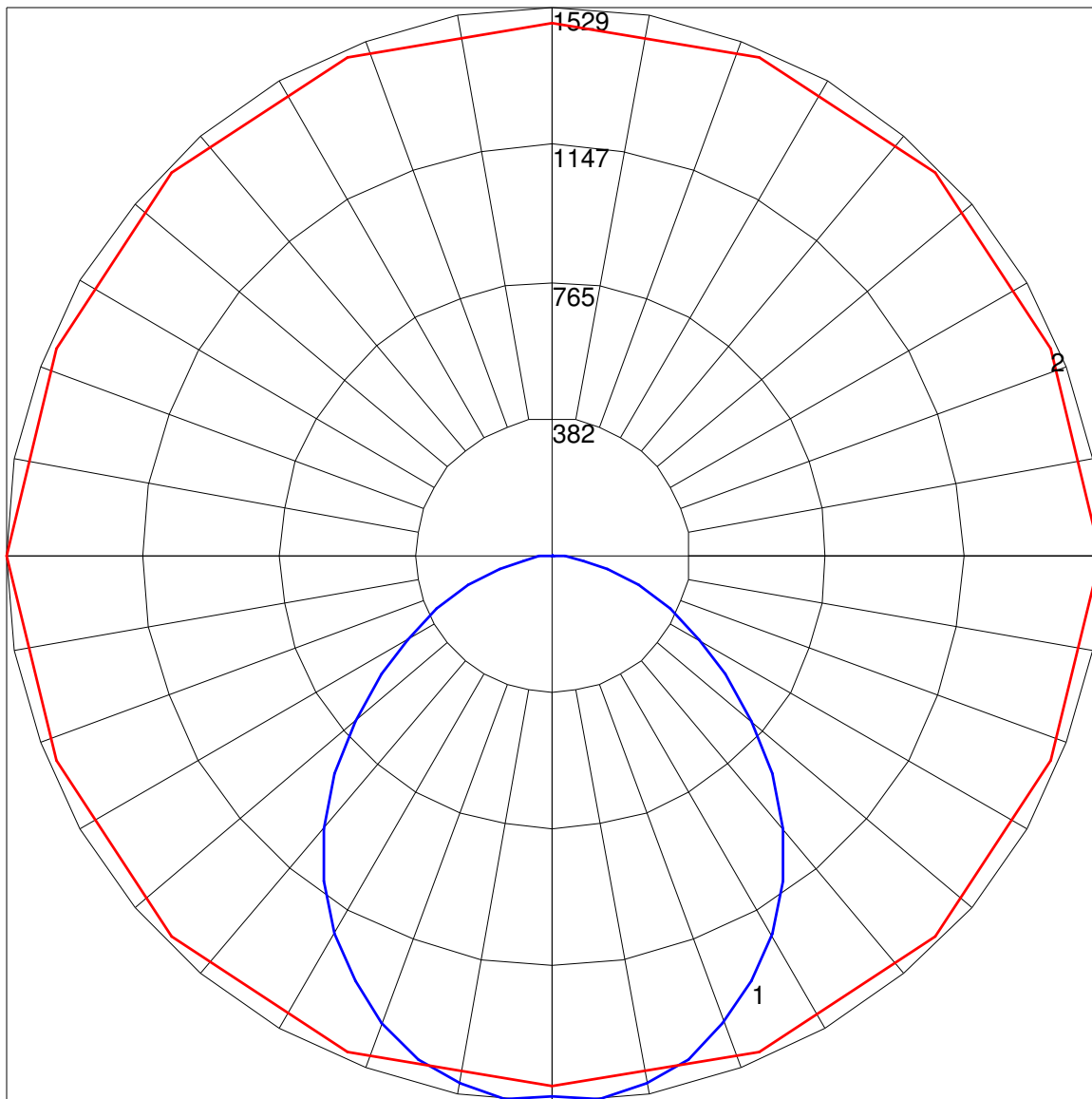
Reflectances

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	18.2	19.7	18.6	20.1	20.6	21.6	23.1	22.0	23.5	24.0
	3H	19.4	20.7	19.8	21.2	21.7	23.8	25.1	24.2	25.6	26.1
	4H	19.7	21.0	20.2	21.5	22.0	24.8	26.1	25.3	26.6	27.1
	6H	19.9	21.1	20.4	21.6	22.1	25.8	27.0	26.4	27.5	28.1
	8H	19.9	21.0	20.4	21.6	22.1	26.4	27.5	26.9	28.0	28.6
	12H	19.9	21.0	20.4	21.5	22.1	26.9	28.0	27.5	28.5	29.1
4H	2H	19.2	20.5	19.7	21.0	21.5	21.9	23.2	22.4	23.7	24.2
	3H	20.7	21.8	21.2	22.3	22.8	24.3	25.4	24.8	25.9	26.5
	4H	21.1	22.1	21.7	22.7	23.3	25.5	26.5	26.0	27.0	27.6
	6H	21.4	22.3	22.0	22.8	23.5	26.7	27.6	27.3	28.2	28.8
	8H	21.5	22.3	22.0	22.9	23.5	27.3	28.2	27.9	28.7	29.3
	12H	21.5	22.2	22.1	22.8	23.5	28.0	28.8	28.6	29.4	30.0
8H	4H	21.9	22.7	22.5	23.3	23.9	25.7	26.5	26.2	27.0	27.7
	6H	22.4	23.1	23.0	23.7	24.3	27.0	27.7	27.6	28.3	28.9
	8H	22.5	23.1	23.1	23.8	24.4	27.8	28.4	28.4	29.0	29.7
	12H	22.6	23.2	23.2	23.8	24.5	28.6	29.2	29.2	29.8	30.5
12H	4H	22.1	22.8	22.7	23.4	24.1	25.6	26.4	26.2	27.0	27.6
	6H	22.7	23.3	23.3	23.9	24.6	27.1	27.7	27.7	28.3	29.0
	8H	22.9	23.5	23.5	24.1	24.8	27.8	28.4	28.5	29.0	29.7

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 1529.325 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.)