



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-835-(L53)-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] 06-12-2023

[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-L65-835-(L53)-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	5383
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	36.6
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	18824	15917	15888
55	15536	13621	13987
65	12795	11441	11783
75	8646	9401	9655
85	5073	8075	7917

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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	1724.107	1724.107	1724.107	1724.107	1724.107
5	1743.035	1717.523	1718.346	1714.232	1696.949
10	1714.232	1692.835	1696.949	1694.480	1678.844
15	1664.031	1648.395	1659.916	1664.854	1648.395
20	1588.318	1584.203	1603.955	1612.184	1602.309
25	1499.438	1505.199	1533.180	1552.108	1544.701
30	1397.391	1405.620	1453.352	1482.156	1480.510
35	1273.123	1287.937	1357.066	1397.391	1403.152
40	1140.626	1151.325	1238.559	1299.458	1313.449
45	984.264	1011.421	1111.823	1192.473	1212.224
50	822.140	865.757	988.378	1076.435	1101.124
55	666.600	723.384	861.642	953.814	989.201
60	536.572	589.241	739.844	832.015	869.049
65	412.304	469.912	626.275	710.217	742.312
70	288.860	366.218	518.467	591.710	622.983
75	177.760	276.516	418.888	488.017	515.175
80	98.756	190.927	334.123	398.314	415.596
85	41.971	131.674	266.640	321.778	333.300
90	5.761	90.526	206.564	255.118	270.755
95	0.823	61.722	165.416	202.449	218.908
100	0.000	40.325	128.382	165.416	178.583
105	0.000	28.804	99.579	134.966	145.664
110	0.000	19.751	76.536	110.277	119.330
115	0.000	16.459	62.545	92.172	98.756
120	0.000	12.344	47.732	75.713	82.296
125	0.000	7.407	35.387	60.076	67.483
130	0.000	4.938	25.512	46.909	53.493
135	0.000	2.469	18.928	37.033	41.971
140	0.000	2.469	13.167	28.804	32.919
145	0.000	0.000	8.230	18.105	23.043
150	0.000	0.000	5.761	13.167	16.459
155	0.000	0.000	4.115	6.584	10.699
160	0.000	0.000	1.646	4.938	5.761
165	0.000	0.000	0.000	1.646	2.469
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	630.46	N.A.	11.70
0-30	1334.69	N.A.	24.80
0-40	2175.05	N.A.	40.40
0-60	3781.17	N.A.	70.20
0-80	4780.86	N.A.	88.80
0-90	5032.12	N.A.	93.50
10-90	4868.89	N.A.	90.50
20-40	1544.59	N.A.	28.70
20-50	2396.08	N.A.	44.50
40-70	2198.26	N.A.	40.80
60-80	999.69	N.A.	18.60
70-80	407.55	N.A.	7.60
80-90	251.26	N.A.	4.70
90-110	239.78	N.A.	4.50
90-120	294.75	N.A.	5.50
90-130	325.95	N.A.	6.10
90-150	348.23	N.A.	6.50
90-180	350.56	N.A.	6.50
110-180	110.79	N.A.	2.10
0-180	5382.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	163.23
10-20	467.23
20-30	704.23
30-40	840.36
40-50	851.49
50-60	754.63
60-70	592.14
70-80	407.55
80-90	251.26
90-100	149.60
100-110	90.18
110-120	54.97
120-130	31.20
130-140	15.77
140-150	6.51
150-160	2.04
160-170	0.30
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

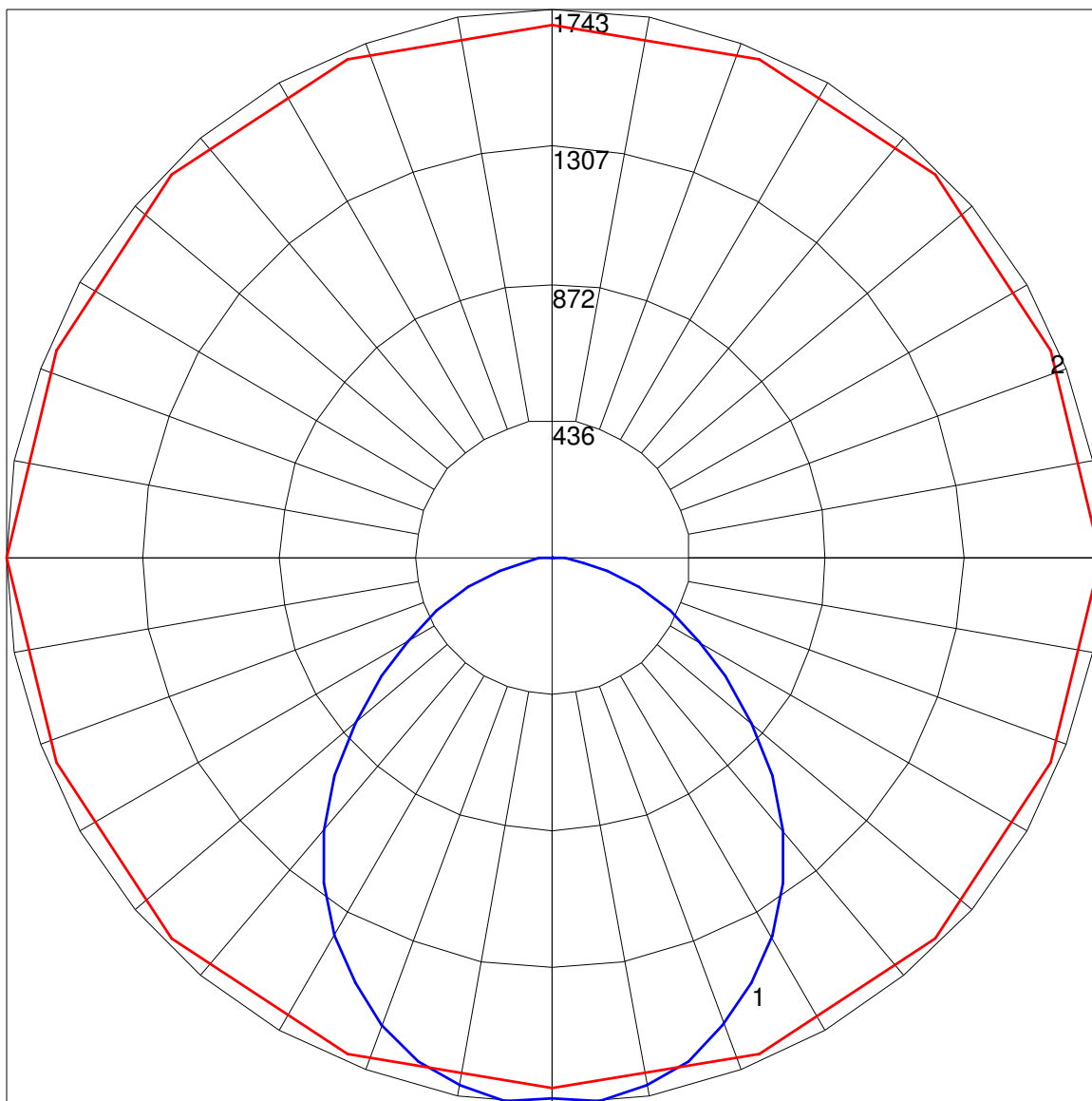
Reflectances

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	18.6	20.1	19.0	20.5	21.0	22.0	23.5	22.4	23.9	24.4
	3H	19.8	21.1	20.2	21.6	22.1	24.2	25.5	24.6	26.0	26.5
	4H	20.1	21.4	20.6	21.9	22.4	25.2	26.5	25.7	27.0	27.5
	6H	20.3	21.5	20.8	22.0	22.5	26.2	27.4	26.8	27.9	28.5
	8H	20.3	21.4	20.8	22.0	22.5	26.8	27.9	27.3	28.4	29.0
	12H	20.3	21.4	20.8	21.9	22.5	27.3	28.4	27.9	28.9	29.5
4H	2H	19.6	20.9	20.1	21.4	21.9	22.3	23.6	22.8	24.1	24.6
	3H	21.1	22.2	21.6	22.7	23.2	24.7	25.8	25.2	26.3	26.9
	4H	21.5	22.5	22.1	23.1	23.7	25.9	26.9	26.4	27.4	28.0
	6H	21.8	22.7	22.4	23.2	23.9	27.1	28.0	27.7	28.6	29.2
	8H	21.9	22.7	22.4	23.3	23.9	27.7	28.6	28.3	29.1	29.7
	12H	21.9	22.6	22.5	23.2	23.9	28.4	29.2	29.0	29.8	30.4
8H	4H	22.3	23.1	22.9	23.7	24.3	26.1	26.9	26.6	27.4	28.1
	6H	22.8	23.5	23.4	24.1	24.7	27.4	28.1	28.0	28.7	29.3
	8H	22.9	23.5	23.5	24.2	24.8	28.2	28.8	28.8	29.4	30.1
	12H	23.0	23.6	23.6	24.2	24.9	29.0	29.6	29.6	30.2	30.9
12H	4H	22.5	23.2	23.1	23.8	24.5	26.0	26.8	26.6	27.4	28.0
	6H	23.1	23.7	23.7	24.3	25.0	27.5	28.1	28.1	28.7	29.4
	8H	23.3	23.9	23.9	24.5	25.2	28.2	28.8	28.9	29.4	30.1

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 1743.035 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.)