



IES INDOOR REPORT

PHOTOMETRIC FILENAME : COPY_COPY_75R-4-L50-835-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] 01-18-2021

[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-L50-835-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	5204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	33.7
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	18198	15387	15360
55	15019	13168	13522
65	12370	11061	11392
75	8358	9089	9334
85	4904	7806	7654

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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	1666.776	1666.776	1666.776	1666.776	1666.776
5	1685.074	1660.411	1661.207	1657.229	1640.521
10	1657.229	1636.543	1640.521	1638.134	1623.018
15	1608.697	1593.581	1604.719	1609.493	1593.581
20	1535.502	1531.524	1550.619	1558.575	1549.027
25	1449.578	1455.147	1482.197	1500.496	1493.336
30	1350.924	1358.880	1405.024	1432.870	1431.279
35	1230.789	1245.109	1311.939	1350.924	1356.493
40	1102.697	1113.040	1197.374	1256.248	1269.773
45	951.534	977.789	1074.852	1152.820	1171.914
50	794.801	836.968	955.512	1040.641	1064.509
55	644.434	699.330	832.990	922.097	956.308
60	518.729	569.647	715.242	804.349	840.150
65	398.594	454.286	605.449	686.600	717.629
70	279.255	354.041	501.226	572.034	602.267
75	171.849	267.321	404.959	471.789	498.044
80	95.472	184.579	323.012	385.069	401.776
85	40.575	127.296	257.773	311.078	322.217
90	5.569	87.516	199.695	246.635	261.751
95	0.796	59.670	159.915	195.717	211.629
100	0.000	38.984	124.113	159.915	172.645
105	0.000	27.846	96.267	130.478	140.821
110	0.000	19.094	73.991	106.610	115.362
115	0.000	15.912	60.465	89.107	95.472
120	0.000	11.934	46.145	73.195	79.560
125	0.000	7.160	34.211	58.079	65.239
130	0.000	4.774	24.664	45.349	51.714
135	0.000	2.387	18.299	35.802	40.575
140	0.000	2.387	12.730	27.846	31.824
145	0.000	0.000	7.956	17.503	22.277
150	0.000	0.000	5.569	12.730	15.912
155	0.000	0.000	3.978	6.365	10.343
160	0.000	0.000	1.591	4.774	5.569
165	0.000	0.000	0.000	1.591	2.387
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	609.50	N.A.	11.70
0-30	1290.3	N.A.	24.80
0-40	2102.72	N.A.	40.40
0-60	3655.44	N.A.	70.20
0-80	4621.88	N.A.	88.80
0-90	4864.79	N.A.	93.50
10-90	4706.99	N.A.	90.50
20-40	1493.22	N.A.	28.70
20-50	2316.4	N.A.	44.50
40-70	2125.17	N.A.	40.80
60-80	966.45	N.A.	18.60
70-80	394.00	N.A.	7.60
80-90	242.90	N.A.	4.70
90-110	231.80	N.A.	4.50
90-120	284.95	N.A.	5.50
90-130	315.11	N.A.	6.10
90-150	336.65	N.A.	6.50
90-180	338.91	N.A.	6.50
110-180	107.10	N.A.	2.10
0-180	5203.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.80
10-20	451.70
20-30	680.81
30-40	812.42
40-50	823.18
50-60	729.54
60-70	572.45
70-80	394.00
80-90	242.90
90-100	144.62
100-110	87.18
110-120	53.14
120-130	30.17
130-140	15.24
140-150	6.30
150-160	1.97
160-170	0.29
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

X=2H	Y=2H	18.5	20.0	18.9	20.4	20.9	21.9	23.4	22.3	23.8	24.3
	3H	19.7	21.0	20.1	21.5	22.0	24.1	25.4	24.5	25.9	26.4
	4H	20.0	21.3	20.5	21.8	22.3	25.1	26.4	25.6	26.9	27.4
	6H	20.2	21.4	20.7	21.9	22.4	26.1	27.3	26.7	27.8	28.4
	8H	20.2	21.3	20.7	21.9	22.4	26.7	27.8	27.2	28.3	28.9
	12H	20.2	21.3	20.7	21.8	22.4	27.2	28.3	27.8	28.8	29.4

UGR Viewed Endwise

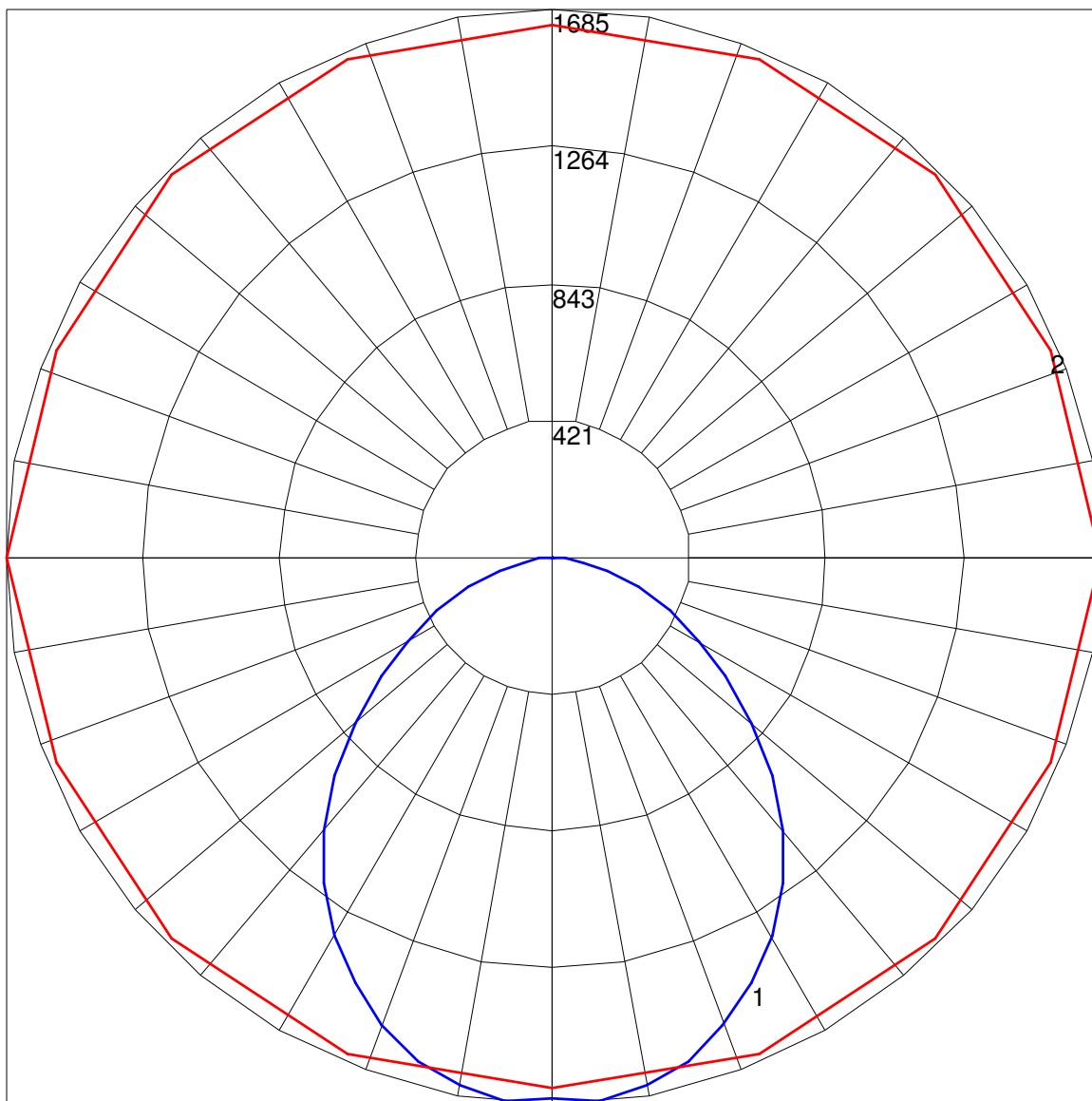
4H	2H	19.5	20.8	20.0	21.3	21.8	22.2	23.5	22.7	24.0	24.5
	3H	21.0	22.1	21.5	22.6	23.1	24.6	25.7	25.1	26.2	26.8
	4H	21.4	22.4	22.0	23.0	23.6	25.8	26.8	26.3	27.3	27.9
	6H	21.7	22.6	22.3	23.1	23.8	27.0	27.9	27.6	28.5	29.1
	8H	21.8	22.6	22.3	23.2	23.8	27.6	28.5	28.2	29.0	29.6
	12H	21.8	22.5	22.4	23.1	23.8	28.3	29.1	28.9	29.7	30.3

8H	4H	22.2	23.0	22.8	23.6	24.2	26.0	26.8	26.5	27.3	28.0
	6H	22.7	23.4	23.3	24.0	24.6	27.3	28.0	27.9	28.6	29.2
	8H	22.8	23.4	23.4	24.1	24.7	28.1	28.7	28.7	29.3	30.0
	12H	22.9	23.5	23.5	24.1	24.8	28.9	29.5	29.5	30.1	30.8

12H	4H	22.4	23.1	23.0	23.7	24.4	25.9	26.7	26.5	27.3	27.9
	6H	23.0	23.6	23.6	24.2	24.9	27.4	28.0	28.0	28.6	29.3
	8H	23.2	23.8	23.8	24.4	25.1	28.1	28.7	28.8	29.3	30.0

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 1685.074 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.)