



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L30-835-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
[ISSUEDATE] 07-08-2021
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-56 LED 22"ARRAYS 4'SURFACE MOUNT STRIP LUMINAIRE
[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS
[LUMCAT] 75R-4-L30-835-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K 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	2916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	10197	8622	8607
55	8416	7379	7577
65	6931	6198	6383
75	4683	5093	5230
85	2748	4374	4289

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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	933.958	933.958	933.958	933.958	933.958
5	944.212	930.392	930.838	928.608	919.247
10	928.608	917.018	919.247	917.909	909.439
15	901.414	892.944	899.185	901.860	892.944
20	860.401	858.172	868.871	873.329	867.979
25	812.254	815.374	830.532	840.785	836.773
30	756.974	761.432	787.289	802.892	802.000
35	689.658	697.682	735.130	756.974	760.095
40	617.884	623.679	670.934	703.924	711.502
45	533.181	547.892	602.280	645.969	656.668
50	445.358	468.985	535.410	583.111	596.485
55	361.101	391.861	466.756	516.686	535.856
60	290.664	319.195	400.777	450.707	470.768
65	223.348	254.554	339.256	384.728	402.115
70	156.477	198.383	280.856	320.533	337.473
75	96.294	149.790	226.914	264.361	279.073
80	53.496	103.426	180.996	215.769	225.131
85	22.736	71.329	144.440	174.309	180.550
90	3.121	49.038	111.897	138.199	146.669
95	0.446	33.435	89.606	109.668	118.584
100	0.000	21.844	69.545	89.606	96.739
105	0.000	15.603	53.942	73.112	78.907
110	0.000	10.699	41.460	59.738	64.641
115	0.000	8.916	33.881	49.930	53.496
120	0.000	6.687	25.857	41.014	44.580
125	0.000	4.012	19.170	32.544	36.556
130	0.000	2.675	13.820	25.411	28.977
135	0.000	1.337	10.253	20.061	22.736
140	0.000	1.337	7.133	15.603	17.832
145	0.000	0.000	4.458	9.808	12.482
150	0.000	0.000	3.121	7.133	8.916
155	0.000	0.000	2.229	3.566	5.795
160	0.000	0.000	0.892	2.675	3.121
165	0.000	0.000	0.000	0.892	1.337
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	341.52	N.A.	11.70
0-30	723.01	N.A.	24.80
0-40	1178.23	N.A.	40.40
0-60	2048.28	N.A.	70.20
0-80	2589.82	N.A.	88.80
0-90	2725.93	N.A.	93.50
10-90	2637.5	N.A.	90.50
20-40	836.71	N.A.	28.70
20-50	1297.97	N.A.	44.50
40-70	1190.81	N.A.	40.80
60-80	541.54	N.A.	18.60
70-80	220.77	N.A.	7.60
80-90	136.11	N.A.	4.70
90-110	129.89	N.A.	4.50
90-120	159.67	N.A.	5.50
90-130	176.57	N.A.	6.10
90-150	188.64	N.A.	6.50
90-180	189.90	N.A.	6.50
110-180	60.01	N.A.	2.10
0-180	2915.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.42
10-20	253.10
20-30	381.48
30-40	455.23
40-50	461.26
50-60	408.79
60-70	320.76
70-80	220.77
80-90	136.11
90-100	81.04
100-110	48.85
110-120	29.78
120-130	16.90
130-140	8.54
140-150	3.53
150-160	1.10
160-170	0.16
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

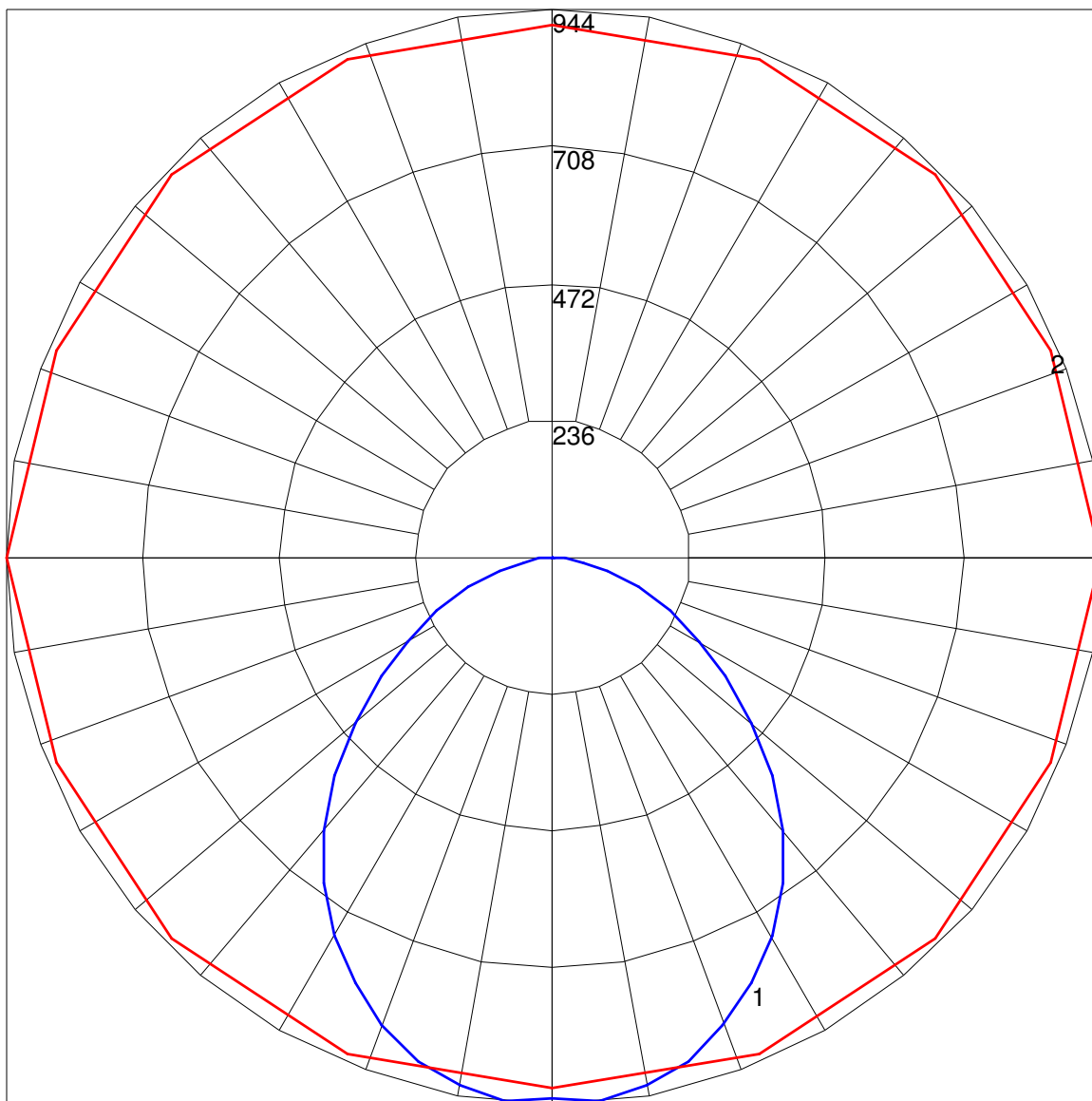
Reflectances

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	16.5	18.0	16.9	18.4	18.9	19.9	21.4	20.3	21.8	22.3
	3H	17.7	19.0	18.1	19.5	20.0	22.1	23.4	22.5	23.9	24.4
	4H	18.0	19.3	18.5	19.8	20.3	23.1	24.4	23.6	24.9	25.4
	6H	18.2	19.4	18.7	19.9	20.4	24.1	25.3	24.7	25.8	26.4
	8H	18.2	19.3	18.7	19.9	20.4	24.7	25.8	25.2	26.3	26.9
	12H	18.2	19.3	18.7	19.8	20.4	25.2	26.3	25.8	26.8	27.4
4H	2H	17.5	18.8	18.0	19.3	19.8	20.2	21.5	20.7	22.0	22.5
	3H	19.0	20.1	19.5	20.6	21.1	22.6	23.7	23.1	24.2	24.8
	4H	19.4	20.4	20.0	21.0	21.6	23.8	24.8	24.3	25.3	25.9
	6H	19.7	20.6	20.3	21.1	21.8	25.0	25.9	25.6	26.5	27.1
	8H	19.8	20.6	20.3	21.2	21.8	25.6	26.5	26.2	27.0	27.6
	12H	19.8	20.5	20.4	21.1	21.8	26.3	27.1	26.9	27.7	28.3
8H	4H	20.2	21.0	20.8	21.6	22.2	24.0	24.8	24.5	25.3	26.0
	6H	20.7	21.4	21.3	22.0	22.6	25.3	26.0	25.9	26.6	27.2
	8H	20.8	21.4	21.4	22.1	22.7	26.1	26.7	26.7	27.3	28.0
	12H	20.9	21.5	21.5	22.1	22.8	26.9	27.5	27.5	28.1	28.8
12H	4H	20.4	21.1	21.0	21.7	22.4	23.9	24.7	24.5	25.3	25.9
	6H	21.0	21.6	21.6	22.2	22.9	25.4	26.0	26.0	26.6	27.3
	8H	21.2	21.8	21.8	22.4	23.1	26.1	26.7	26.8	27.3	28.0

Maximum UGR = 28.8

POLAR GRAPH



Maximum Candela = 944.212 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.)