



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L154-840-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18635.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 21-SEP-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 32 LED 22" ARRAYS 8' INDUSTRIAL LUMINAIRE
 [MORE] WHITE REFLECTOR w/OPEN BOTTOM
 [LUMCAT] 80-8-L154-840-DIM-UNV
 [LAMPCAT] 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15412
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8360	8157	8136
55	8055	7878	7845
65	7672	7503	4010
75	6169	3427	656
85	2772	1213	910

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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	5791.410	5791.410	5791.410	5791.410	5791.410
5	5722.611	5702.954	5685.755	5707.869	5732.440
10	5607.127	5587.470	5675.926	5690.669	5634.155
15	5476.900	5533.414	5471.986	5427.758	5427.758
20	5312.274	5435.129	5260.674	5233.646	5233.646
25	5098.505	5125.533	5039.534	5024.792	5024.792
30	4825.766	4783.995	4752.052	4734.853	4729.938
35	4535.827	4494.056	4457.199	4452.285	4442.456
40	4216.402	4147.603	4127.946	4120.575	4115.661
45	3847.836	3769.208	3754.465	3749.551	3744.637
50	3417.841	3361.328	3344.128	3339.214	3339.214
55	3007.504	2946.076	2941.162	2928.876	2928.876
60	2540.653	2493.968	2489.053	2479.225	2471.854
65	2110.658	2068.887	2063.973	1589.751	1103.243
70	1611.865	1575.008	1260.498	855.075	872.274
75	1039.358	1039.358	577.421	498.794	110.570
80	550.393	356.281	100.742	83.542	83.542
85	157.255	83.542	68.799	51.599	51.599
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2090.56	N.A.	13.60
0-30	4420.87	N.A.	28.70
0-40	7217.97	N.A.	46.80
0-60	12748.79	N.A.	82.70
0-80	15311.79	N.A.	99.30
0-90	15412.1	N.A.	100.00
10-90	14868.64	N.A.	96.50
20-40	5127.41	N.A.	33.30
20-50	8030.96	N.A.	52.10
40-70	7358.33	N.A.	47.70
60-80	2563.00	N.A.	16.60
70-80	735.49	N.A.	4.80
80-90	100.31	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	15412.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	543.46
10-20	1547.1
20-30	2330.31
30-40	2797.1
40-50	2903.55
50-60	2627.26
60-70	1827.52
70-80	735.49
80-90	100.31
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
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	275	275	275	275	269	269	269	269	257	257	257	246	246	246	236	236	236	231
1	254	243	234	226	247	238	230	222	228	221	215	219	214	209	211	207	202	198
2	231	213	198	186	225	209	195	183	201	189	179	193	184	175	186	178	171	166
3	211	188	169	155	206	184	167	154	177	163	151	171	159	148	165	155	146	141
4	194	166	147	132	188	163	145	131	158	142	129	152	138	127	147	135	125	121
5	178	149	128	113	173	146	127	113	141	124	112	137	122	110	133	120	109	104
6	164	134	114	99	160	132	113	99	128	110	98	124	108	97	120	107	96	91
7	152	121	101	87	148	120	101	87	116	99	86	113	97	86	110	96	85	81
8	142	111	91	78	138	109	91	78	106	89	77	103	88	77	101	87	76	72
9	132	102	83	70	129	100	82	70	98	81	70	95	80	69	93	79	69	65
10	124	94	76	64	121	93	75	63	90	74	63	88	73	63	86	72	63	59

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UGR TABLE - CORRECTED

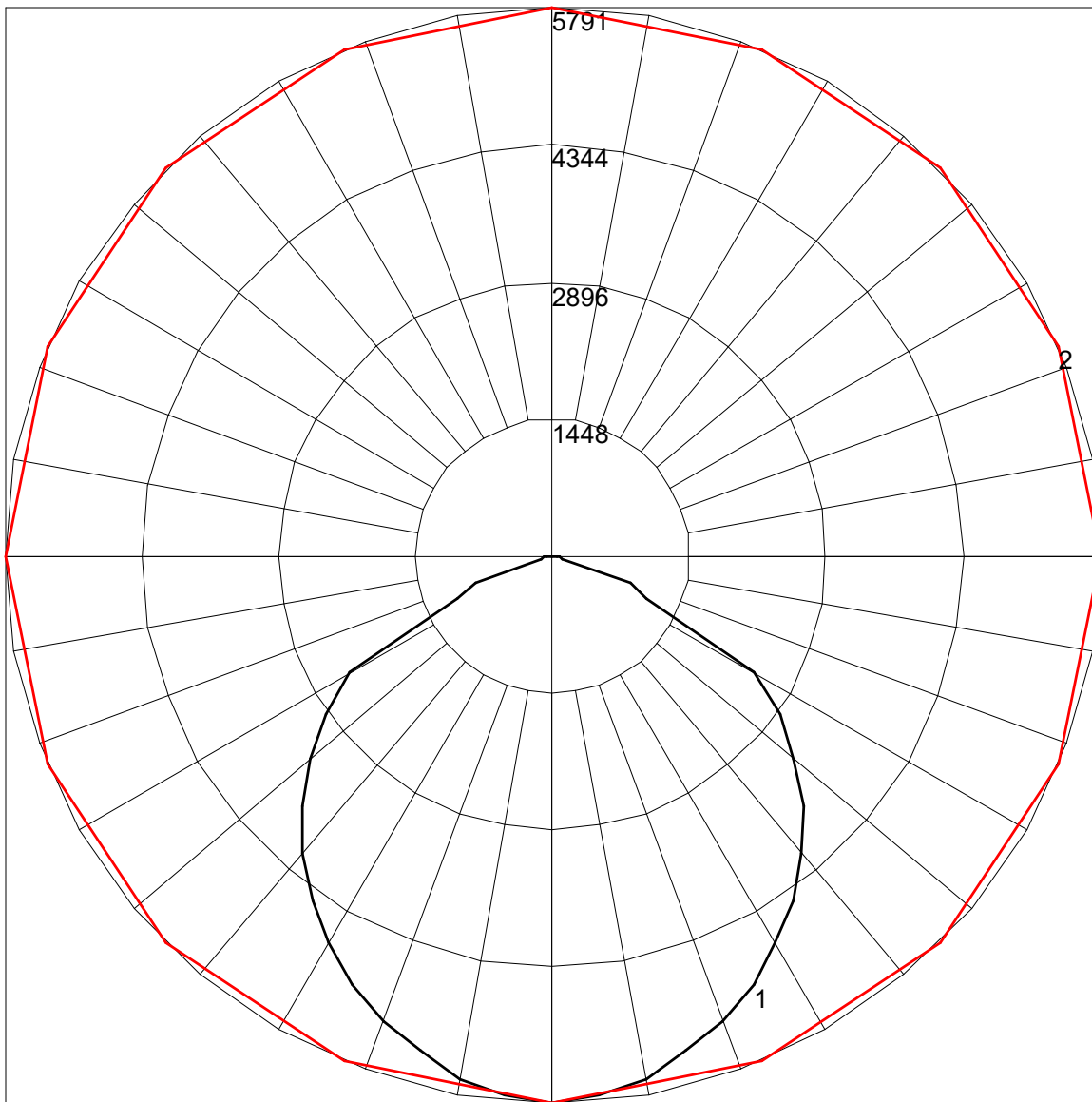
Reflectances

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	16.7	18.3	17.1	18.6	18.9	16.6	18.2	17.0	18.5	18.9
	3H	18.6	20.0	19.0	20.4	20.7	17.3	18.8	17.7	19.1	19.5
	4H	19.2	20.6	19.6	20.9	21.3	17.4	18.7	17.8	19.1	19.4
	6H	19.6	20.8	20.0	21.2	21.6	17.3	18.6	17.7	18.9	19.3
	8H	19.6	20.8	20.1	21.2	21.6	17.3	18.5	17.7	18.9	19.3
	12H	19.7	20.8	20.1	21.2	21.6	17.3	18.4	17.7	18.8	19.2
4H	2H	17.4	18.7	17.8	19.1	19.4	17.3	18.7	17.7	19.0	19.4
	3H	19.4	20.5	19.8	20.9	21.3	18.1	19.3	18.5	19.7	20.1
	4H	20.1	21.1	20.5	21.5	22.0	18.3	19.3	18.7	19.7	20.1
	6H	20.5	21.4	20.9	21.8	22.3	18.2	19.1	18.7	19.6	20.0
	8H	20.6	21.4	21.1	21.9	22.3	18.2	19.0	18.7	19.5	20.0
	12H	20.6	21.4	21.1	21.8	22.3	18.2	18.9	18.7	19.4	19.9
8H	4H	20.1	21.0	20.6	21.4	21.9	18.4	19.3	18.9	19.7	20.2
	6H	20.6	21.2	21.0	21.7	22.2	18.4	19.1	18.9	19.6	20.1
	8H	20.7	21.3	21.2	21.8	22.3	18.4	19.0	18.9	19.5	20.0
	12H	20.7	21.3	21.2	21.8	22.3	18.4	18.9	18.9	19.4	20.0
12H	4H	20.1	20.8	20.6	21.3	21.8	18.4	19.2	18.9	19.6	20.1
	6H	20.5	21.1	21.1	21.6	22.1	18.4	19.0	18.9	19.5	20.0
	8H	20.7	21.2	21.2	21.7	22.2	18.4	18.9	18.9	19.4	20.0

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 5791.41 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)