



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L42-8TW-DIM-UNV-LW-OF-WH 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20372.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 18-DEC-2019

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 6"TALL HEAT SINK 6" SQ FORMED HOUSING DOWNLIGHT

[MORE] NO OPTIC & 6" CAST WHITE FLUSH SHALLOW TRIM

[MORE] w/SOLITE LENS

[LUMCAT] 6PS-L42-8TW-DIM-UNV-LW-OF-WH 4000k

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	46.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	63776	80533	63173
55	29725	46594	28610
65	19365	23399	19465
75	13834	14822	13998
85	8314	7336	8314

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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	2209.714	2209.714	2209.714	2209.714	2209.714
5	2209.714	2202.777	2197.823	2191.877	2190.887
10	2180.978	2170.078	2169.087	2162.150	2162.150
15	2130.441	2122.514	2114.587	2117.560	2120.532
20	2059.096	2049.187	2050.178	2056.124	2061.078
25	1980.815	1976.852	1960.997	1972.888	1976.852
30	1896.588	1880.734	1864.879	1874.789	1887.670
35	1757.862	1749.935	1755.880	1751.917	1715.253
40	1460.591	1501.218	1595.354	1515.091	1452.664
45	1048.375	1139.538	1323.846	1177.193	1038.466
50	616.342	712.459	977.030	795.695	610.396
55	396.361	434.016	621.296	457.797	381.498
60	264.571	290.335	360.689	300.244	266.553
65	190.253	200.162	229.890	205.117	191.244
70	133.772	136.745	146.654	139.717	131.790
75	83.236	84.227	89.181	89.181	84.227
80	45.582	45.582	47.563	46.572	45.582
85	16.845	14.864	14.864	13.873	16.845
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	807.26	N.A.	18.10
0-30	1716.83	N.A.	38.40
0-40	2795.74	N.A.	62.60
0-60	4138.66	N.A.	92.70
0-80	4444.79	N.A.	99.50
0-90	4465.62	N.A.	100.00
10-90	4256.73	N.A.	95.30
20-40	1988.48	N.A.	44.50
20-50	2879.34	N.A.	64.50
40-70	1554.54	N.A.	34.80
60-80	306.14	N.A.	6.90
70-80	94.52	N.A.	2.10
80-90	20.83	N.A.	0.50
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	4465.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	208.90
10-20	598.37
20-30	909.57
30-40	1078.91
40-50	890.86
50-60	452.05
60-70	211.62
70-80	94.52
80-90	20.83
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	420	420	420	420	410	410	410	410	392	392	392	375	375	375	360	360	360	352
1	392	379	367	356	383	371	360	351	356	348	340	343	336	329	331	325	320	313
2	364	340	321	305	355	334	316	301	322	307	294	311	299	288	301	291	282	275
3	337	306	283	264	329	301	279	261	291	272	257	282	266	253	273	260	249	242
4	313	277	251	231	305	272	248	229	264	243	226	256	238	223	249	234	221	214
5	290	251	224	204	284	248	222	203	241	218	201	234	214	199	228	211	197	190
6	270	229	201	182	264	226	200	181	220	197	179	214	194	178	209	191	177	170
7	252	210	182	163	246	207	181	162	202	178	161	197	176	160	193	174	159	153
8	236	193	166	147	231	191	165	147	186	163	146	182	161	145	178	159	145	138
9	221	178	152	134	216	176	151	134	172	149	133	169	148	132	165	146	132	126
10	208	165	139	122	203	163	139	122	160	137	122	157	136	121	154	135	121	115

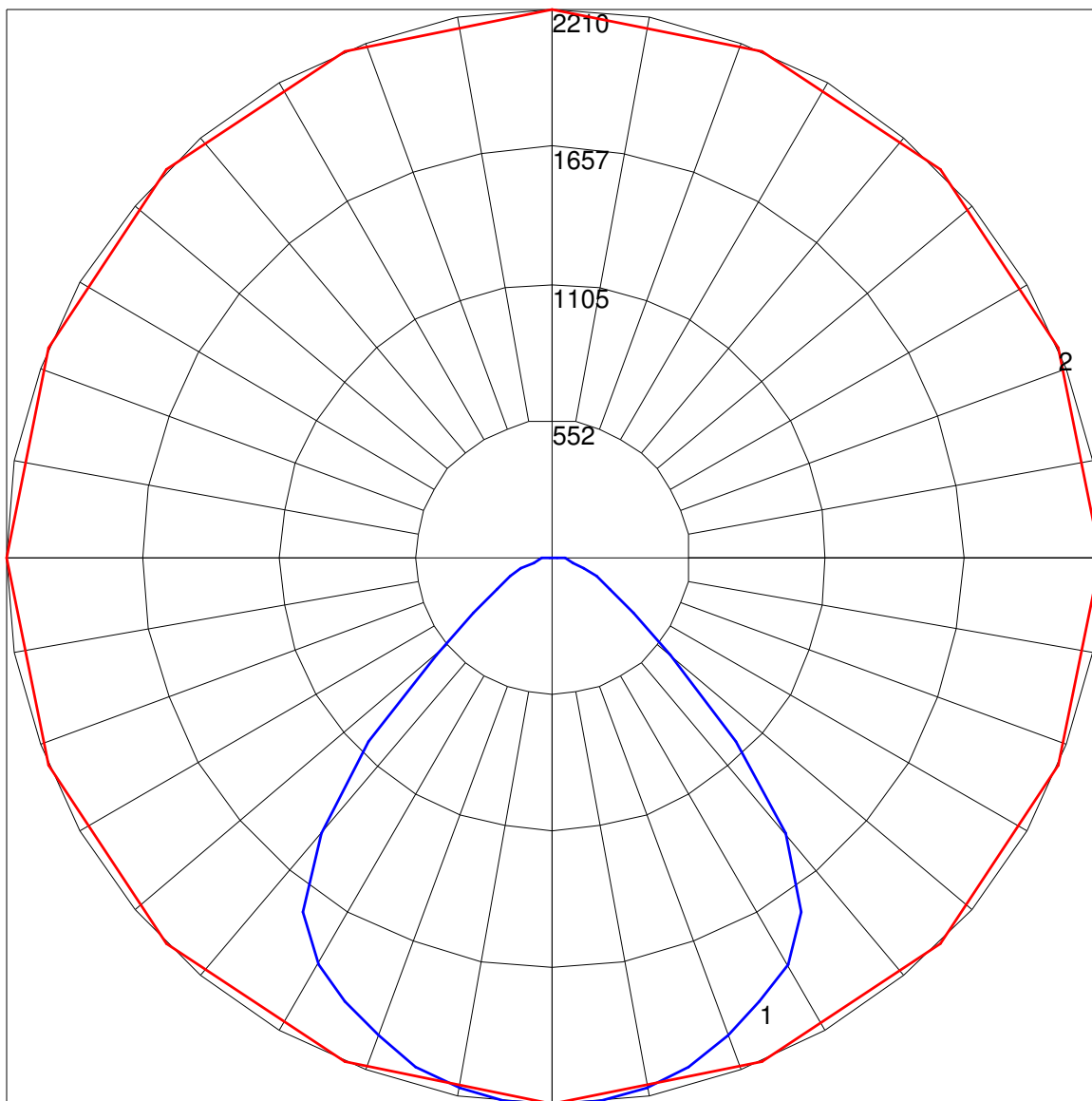
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UGR TABLE - CORRECTED

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	17.1	18.5	17.5	18.8	19.2	17.4	18.8	17.7	19.1	19.4
	3H	18.1	19.3	18.5	19.6	20.0	18.3	19.5	18.6	19.8	20.2
	4H	18.4	19.5	18.8	19.9	20.3	18.6	19.7	19.0	20.1	20.4
	6H	18.6	19.6	19.0	20.0	20.4	18.7	19.8	19.1	20.2	20.6
	8H	18.6	19.6	19.0	20.0	20.4	18.8	19.8	19.2	20.2	20.6
	12H	18.6	19.6	19.0	20.0	20.4	18.8	19.7	19.2	20.1	20.6
4H	2H	17.6	18.8	18.0	19.1	19.5	17.8	19.0	18.2	19.3	19.7
	3H	18.7	19.6	19.1	20.0	20.5	18.9	19.8	19.3	20.2	20.6
	4H	19.1	19.9	19.5	20.3	20.8	19.3	20.1	19.7	20.5	20.9
	6H	19.3	20.1	19.8	20.5	21.0	19.5	20.2	20.0	20.7	21.1
	8H	19.4	20.1	19.9	20.5	21.0	19.6	20.2	20.0	20.7	21.2
	12H	19.4	20.0	19.9	20.5	21.0	19.6	20.2	20.1	20.7	21.1
8H	4H	19.2	19.9	19.7	20.3	20.8	19.4	20.0	19.8	20.5	21.0
	6H	19.5	20.1	20.0	20.6	21.1	19.7	20.2	20.2	20.7	21.2
	8H	19.6	20.1	20.1	20.6	21.1	19.8	20.3	20.3	20.8	21.3
	12H	19.7	20.1	20.2	20.6	21.2	19.8	20.3	20.3	20.8	21.3
12H	4H	19.2	19.8	19.7	20.3	20.7	19.3	19.9	19.8	20.4	20.9
	6H	19.5	20.0	20.1	20.5	21.0	19.7	20.2	20.2	20.7	21.2
	8H	19.7	20.1	20.2	20.6	21.2	19.8	20.2	20.3	20.7	21.3

Maximum UGR = 21.3

POLAR GRAPH



Maximum Candela = 2209.714 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)