



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L13-9DW-DIM-UNV-LW-OF-WH\_.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-L13-9DW-DIM-UNV-LW-OF-WH

[\_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	1447
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	23.4
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	20664	26093	20468
55	9631	15097	9270
65	6274	7581	6307
75	4482	4802	4536
85	2694	2377	2694

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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>
<b>0</b>	715.955	715.955	715.955	715.955	715.955
<b>5</b>	715.955	713.708	712.102	710.176	709.855
<b>10</b>	706.644	703.113	702.792	700.544	700.544
<b>15</b>	690.271	687.702	685.134	686.097	687.060
<b>20</b>	667.155	663.944	664.265	666.191	667.797
<b>25</b>	641.791	640.507	635.370	639.223	640.507
<b>30</b>	614.501	609.364	604.228	607.438	611.612
<b>35</b>	569.554	566.985	568.911	567.627	555.748
<b>40</b>	473.237	486.400	516.900	490.895	470.668
<b>45</b>	339.677	369.215	428.931	381.415	336.467
<b>50</b>	199.697	230.839	316.561	257.808	197.771
<b>55</b>	128.422	140.623	201.302	148.328	123.607
<b>60</b>	85.722	94.069	116.864	97.280	86.364
<b>65</b>	61.643	64.853	74.485	66.459	61.964
<b>70</b>	43.343	44.306	47.516	45.269	42.700
<b>75</b>	26.969	27.290	28.895	28.895	27.290
<b>80</b>	14.769	14.769	15.411	15.090	14.769
<b>85</b>	5.458	4.816	4.816	4.495	5.458
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	261.56	N.A.	18.10
0-30	556.26	N.A.	38.40
0-40	905.83	N.A.	62.60
0-60	1340.94	N.A.	92.70
0-80	1440.13	N.A.	99.50
0-90	1446.88	N.A.	100.00
10-90	1379.2	N.A.	95.30
20-40	644.27	N.A.	44.50
20-50	932.92	N.A.	64.50
40-70	503.68	N.A.	34.80
60-80	99.19	N.A.	6.90
70-80	30.62	N.A.	2.10
80-90	6.75	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	1446.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	67.68
10-20	193.87
20-30	294.70
30-40	349.57
40-50	288.64
50-60	146.47
60-70	68.57
70-80	30.62
80-90	6.75
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	80	80	80	80	79	79	79	79	75	75	75	72	72	72	69	69	69	68
1	75	73	70	68	73	71	69	67	68	67	65	66	64	63	63	62	61	60
2	70	65	62	58	68	64	61	58	62	59	56	60	57	55	58	56	54	53
3	65	59	54	51	63	58	54	50	56	52	49	54	51	48	52	50	48	46
4	60	53	48	44	59	52	48	44	51	47	43	49	46	43	48	45	42	41
5	56	48	43	39	54	47	43	39	46	42	38	45	41	38	44	40	38	36
6	52	44	39	35	51	43	38	35	42	38	34	41	37	34	40	37	34	33
7	48	40	35	31	47	40	35	31	39	34	31	38	34	31	37	33	31	29
8	45	37	32	28	44	37	32	28	36	31	28	35	31	28	34	30	28	27
9	42	34	29	26	41	34	29	26	33	29	25	32	28	25	32	28	25	24
10	40	32	27	23	39	31	27	23	31	26	23	30	26	23	29	26	23	22

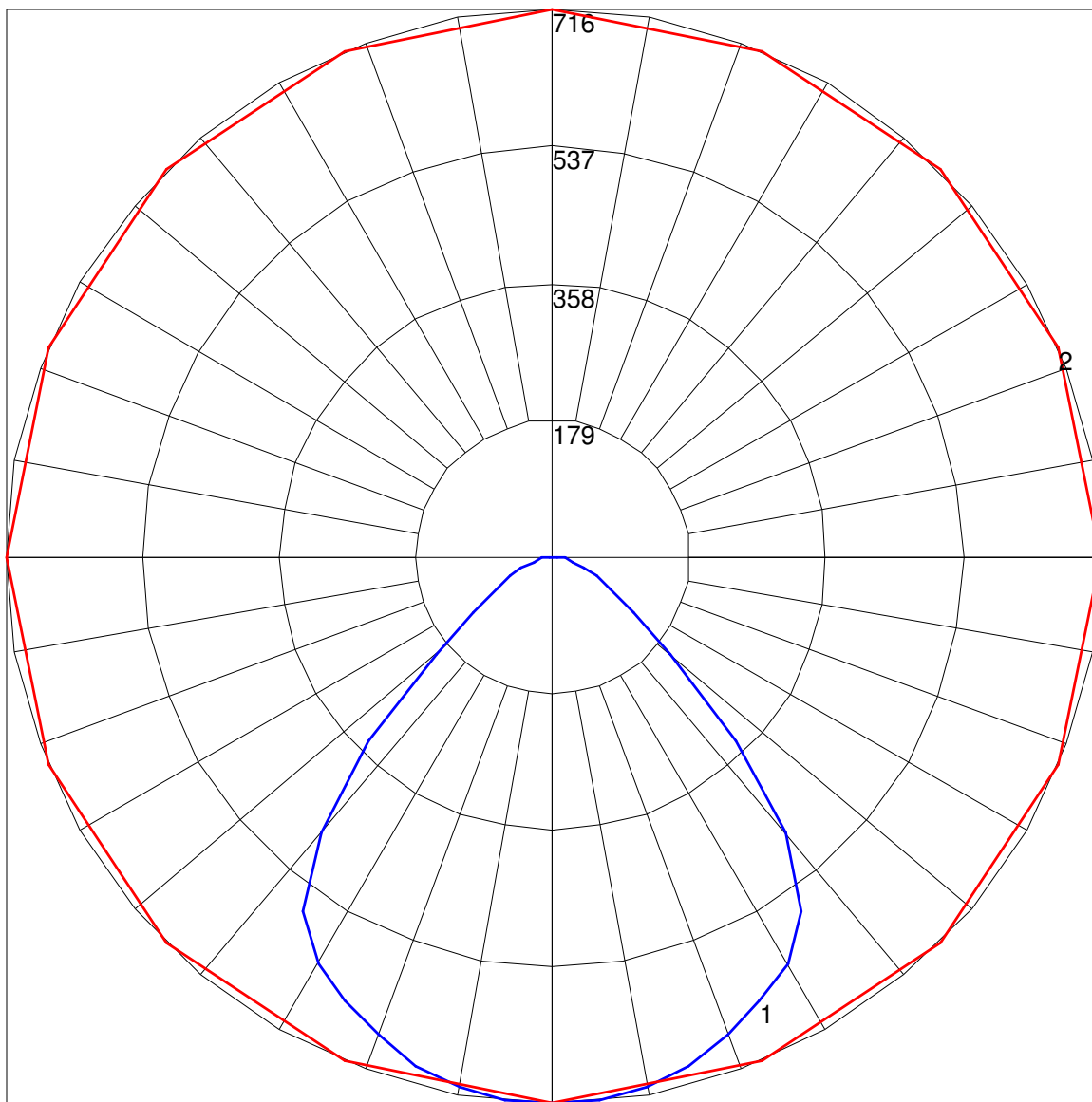
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**UGR TABLE - CORRECTED**

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	18.9	20.3	19.3	20.6	21.0	19.2	20.6	19.5	20.9	21.2
	3H	19.9	21.1	20.3	21.4	21.8	20.1	21.3	20.4	21.6	22.0
	4H	20.2	21.3	20.6	21.7	22.1	20.4	21.5	20.8	21.9	22.2
	6H	20.4	21.4	20.8	21.8	22.2	20.5	21.6	20.9	22.0	22.4
	8H	20.4	21.4	20.8	21.8	22.2	20.6	21.6	21.0	22.0	22.4
	12H	20.4	21.4	20.8	21.8	22.2	20.6	21.5	21.0	21.9	22.4
4H	2H	19.4	20.6	19.8	20.9	21.3	19.6	20.7	20.0	21.1	21.5
	3H	20.5	21.4	20.9	21.8	22.2	20.7	21.6	21.1	22.0	22.4
	4H	20.9	21.7	21.3	22.1	22.6	21.1	21.9	21.5	22.3	22.7
	6H	21.1	21.9	21.6	22.3	22.8	21.3	22.0	21.8	22.5	22.9
	8H	21.2	21.9	21.7	22.3	22.8	21.4	22.0	21.8	22.5	23.0
	12H	21.2	21.8	21.7	22.3	22.8	21.4	22.0	21.9	22.5	22.9
8H	4H	21.0	21.7	21.5	22.1	22.6	21.2	21.8	21.6	22.3	22.8
	6H	21.3	21.9	21.8	22.4	22.9	21.5	22.0	22.0	22.5	23.0
	8H	21.4	21.9	21.9	22.4	22.9	21.6	22.1	22.1	22.6	23.1
	12H	21.5	21.9	22.0	22.4	23.0	21.6	22.1	22.1	22.6	23.1
12H	4H	21.0	21.6	21.5	22.1	22.5	21.1	21.7	21.6	22.2	22.7
	6H	21.3	21.8	21.9	22.3	22.8	21.5	22.0	22.0	22.4	23.0
	8H	21.5	21.9	22.0	22.4	23.0	21.6	22.0	22.1	22.5	23.1

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 715.955 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.)