



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L7-9DW-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 HEATSINK 6" SQ FORMED HOUSING DOWNLIGHT

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

[MORE] w/SOLITE LENS

[LUMCAT] 6PS-L7-9DW-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	825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	14
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	11781	14877	11670
55	5491	8607	5285
65	3577	4322	3596
75	2555	2738	2586
85	1536	1355	1536

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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	408.198	408.198	408.198	408.198	408.198
5	408.198	406.917	406.002	404.903	404.720
10	402.890	400.876	400.693	399.412	399.412
15	393.554	392.090	390.626	391.175	391.724
20	380.375	378.544	378.727	379.826	380.741
25	365.914	365.182	362.253	364.450	365.182
30	350.355	347.426	344.497	346.328	348.707
35	324.728	323.264	324.362	323.630	316.857
40	269.813	277.318	294.708	279.881	268.349
45	193.665	210.506	244.553	217.462	191.835
50	113.856	131.612	180.486	146.988	112.758
55	73.219	80.175	114.771	84.568	70.474
60	48.874	53.633	66.630	55.464	49.240
65	35.145	36.976	42.467	37.891	35.328
70	24.712	25.261	27.091	25.810	24.345
75	15.376	15.559	16.474	16.474	15.559
80	8.420	8.420	8.786	8.603	8.420
85	3.112	2.746	2.746	2.563	3.112
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	149.12	N.A.	18.10
0-30	317.15	N.A.	38.40
0-40	516.45	N.A.	62.60
0-60	764.53	N.A.	92.70
0-80	821.08	N.A.	99.50
0-90	824.93	N.A.	100.00
10-90	786.34	N.A.	95.30
20-40	367.33	N.A.	44.50
20-50	531.90	N.A.	64.50
40-70	287.17	N.A.	34.80
60-80	56.55	N.A.	6.90
70-80	17.46	N.A.	2.10
80-90	3.85	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	824.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.59
10-20	110.54
20-30	168.02
30-40	199.31
40-50	164.57
50-60	83.51
60-70	39.09
70-80	17.46
80-90	3.85
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	46	46	46	46	45	45	45	45	43	43	43	41	41	41	39	39	39	39
1	43	41	40	39	42	41	39	38	39	38	37	37	37	36	36	36	35	34
2	40	37	35	33	39	37	35	33	35	34	32	34	33	31	33	32	31	30
3	37	33	31	29	36	33	31	29	32	30	28	31	29	28	30	28	27	26
4	34	30	27	25	33	30	27	25	29	27	25	28	26	24	27	26	24	23
5	32	27	24	22	31	27	24	22	26	24	22	26	23	22	25	23	22	21
6	30	25	22	20	29	25	22	20	24	22	20	23	21	19	23	21	19	19
7	28	23	20	18	27	23	20	18	22	20	18	22	19	18	21	19	17	17
8	26	21	18	16	25	21	18	16	20	18	16	20	18	16	19	17	16	15
9	24	19	17	15	24	19	16	15	19	16	15	18	16	14	18	16	14	14
10	23	18	15	13	22	18	15	13	17	15	13	17	15	13	17	15	13	13

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UGR TABLE - CORRECTED

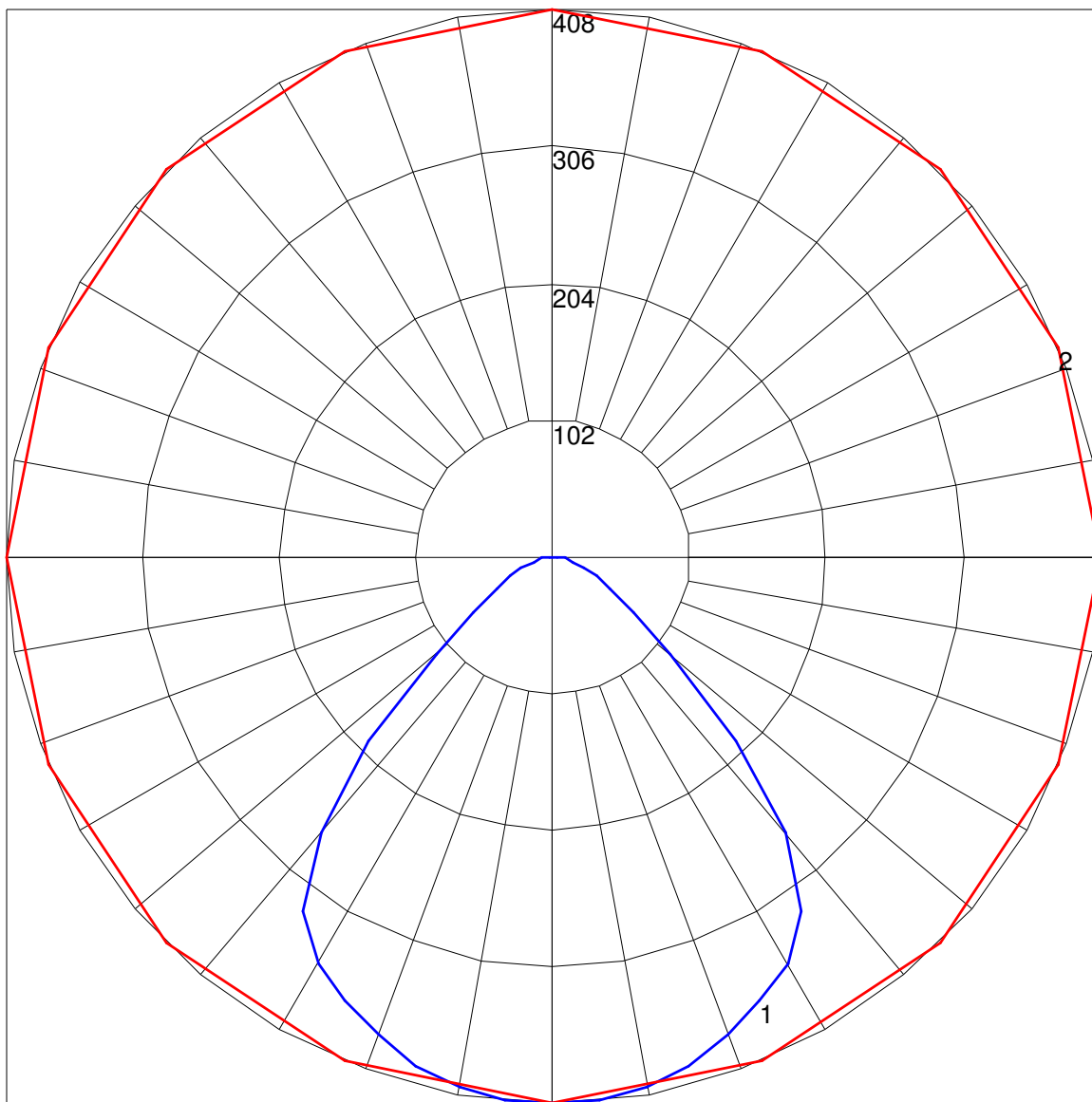
Reflectances

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 = 408.198 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.)