



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L30-840-DIM-UNV-LW-OF-WH-AD_.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] 01-05-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V18 LED 6" TALL HEATSINK 6" SQ FORMED HOUSING DOWNLIGHT

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

[MORE] w/SOLITE LENS ADVANCE # XI050C140V054DSM5 @ 1125mA

[LUMCAT] 6PS-L30-840-DIM-UNV-LW-OF-WH-AD

[_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	3828
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	33.2
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	54665	69029	54148
55	25479	39938	24523
65	16598	20056	16685
75	11857	12704	11999
85	7126	6288	7126

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 6PS-L30-840-DIM-UNV-LW-OF-WH-AD_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1894.040	1894.040	1894.040	1894.040	1894.040
5	1894.040	1888.095	1883.848	1878.752	1877.903
10	1869.409	1860.066	1859.217	1853.272	1853.272
15	1826.093	1819.298	1812.503	1815.051	1817.599
20	1764.940	1756.446	1757.296	1762.392	1766.638
25	1697.841	1694.444	1680.855	1691.047	1694.444
30	1625.647	1612.058	1598.468	1606.961	1618.003
35	1506.739	1499.944	1505.040	1501.643	1470.217
40	1251.935	1286.758	1367.446	1298.649	1245.140
45	898.607	976.747	1134.725	1009.022	890.114
50	528.293	610.679	837.455	682.024	523.197
55	339.738	372.013	532.540	392.398	326.998
60	226.775	248.858	309.162	257.352	228.474
65	163.074	171.568	197.048	175.814	163.924
70	114.662	117.210	125.703	119.758	112.963
75	71.345	72.194	76.441	76.441	72.194
80	39.070	39.070	40.769	39.919	39.070
85	14.439	12.740	12.740	11.891	14.439
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PS-L30-840-DIM-UNV-LW-OF-WH-AD_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	691.94	N.A.	18.10
0-30	1471.57	N.A.	38.40
0-40	2396.35	N.A.	62.60
0-60	3547.42	N.A.	92.70
0-80	3809.82	N.A.	99.50
0-90	3827.68	N.A.	100.00
10-90	3648.62	N.A.	95.30
20-40	1704.41	N.A.	44.50
20-50	2468.00	N.A.	64.50
40-70	1332.46	N.A.	34.80
60-80	262.40	N.A.	6.90
70-80	81.02	N.A.	2.10
80-90	17.86	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	3827.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	179.05
10-20	512.89
20-30	779.63
30-40	924.78
40-50	763.60
50-60	387.47
60-70	181.39
70-80	81.02
80-90	17.86
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PS-L30-840-DIM-UNV-LW-OF-WH-AD_.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	71	69
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	44	38	34	33

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6PS-L30-840-DIM-UNV-LW-OF-WH-AD_.IES

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

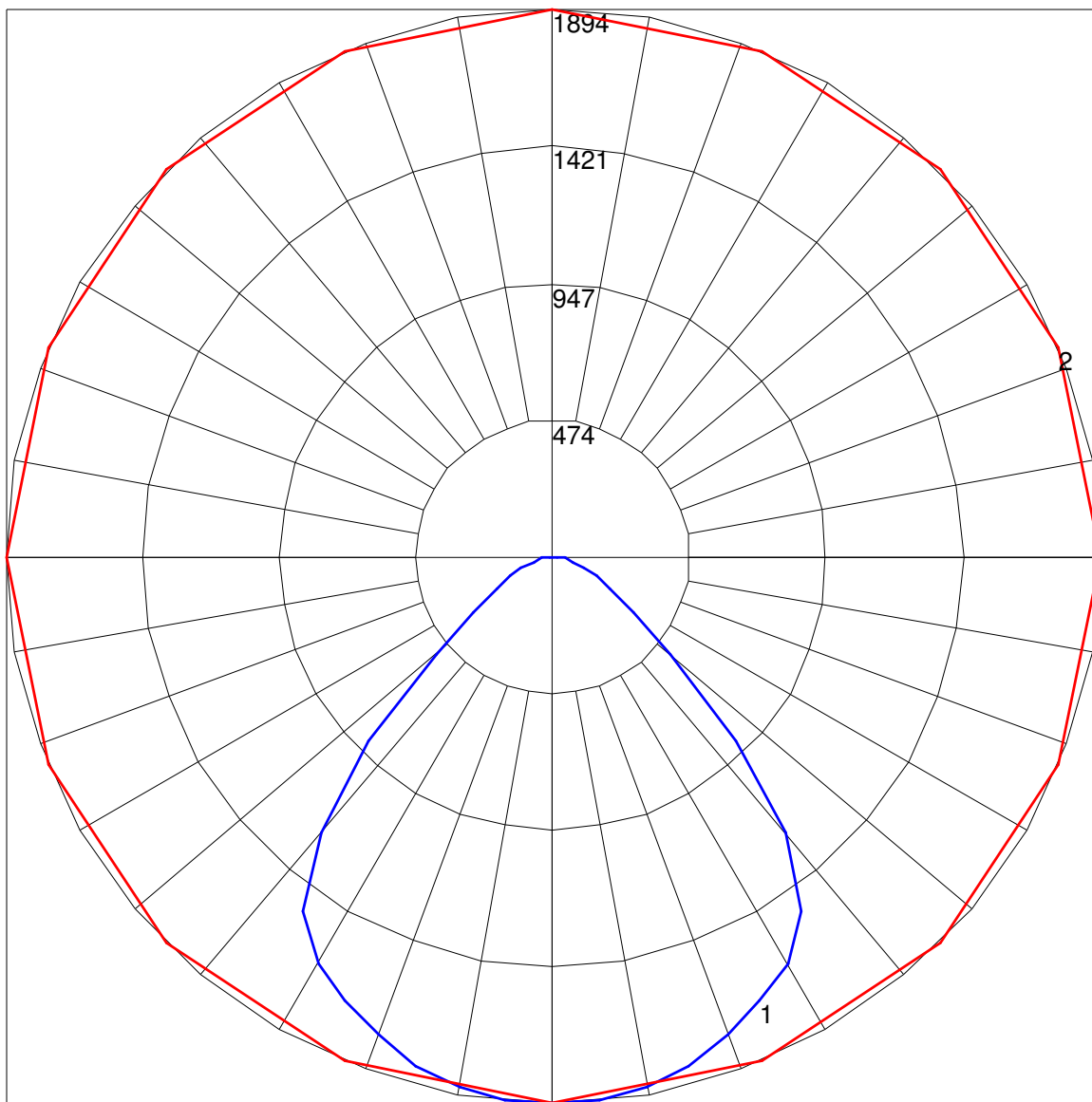
X=2H	Y=2H	21.0	22.4	21.4	22.7	23.1	21.3	22.7	21.6	23.0	23.3
	3H	22.0	23.2	22.4	23.5	23.9	22.2	23.4	22.5	23.7	24.1
	4H	22.3	23.4	22.7	23.8	24.2	22.5	23.6	22.9	24.0	24.3
	6H	22.5	23.5	22.9	23.9	24.3	22.6	23.7	23.0	24.1	24.5
	8H	22.5	23.5	22.9	23.9	24.3	22.7	23.7	23.1	24.1	24.5
	12H	22.5	23.5	22.9	23.9	24.3	22.7	23.6	23.1	24.0	24.5

UGR Viewed Endwise

4H	2H	21.5	22.7	21.9	23.0	23.4	21.7	22.9	22.1	23.2	23.6
	3H	22.6	23.5	23.0	23.9	24.4	22.8	23.7	23.2	24.1	24.5
	4H	23.0	23.8	23.4	24.2	24.7	23.2	24.0	23.6	24.4	24.8
	6H	23.2	24.0	23.7	24.4	24.9	23.4	24.1	23.9	24.6	25.0
	8H	23.3	24.0	23.8	24.4	24.9	23.5	24.1	23.9	24.6	25.1
	12H	23.3	23.9	23.8	24.4	24.9	23.5	24.1	24.0	24.6	25.0
8H	4H	23.1	23.8	23.6	24.2	24.7	23.3	23.9	23.7	24.4	24.9
	6H	23.4	24.0	23.9	24.5	25.0	23.6	24.1	24.1	24.6	25.1
	8H	23.5	24.0	24.0	24.5	25.0	23.7	24.2	24.2	24.7	25.2
	12H	23.6	24.0	24.1	24.5	25.1	23.7	24.2	24.2	24.7	25.2
12H	4H	23.1	23.7	23.6	24.2	24.6	23.2	23.8	23.7	24.3	24.8
	6H	23.4	23.9	24.0	24.4	24.9	23.6	24.1	24.1	24.6	25.1
	8H	23.6	24.0	24.1	24.5	25.1	23.7	24.1	24.2	24.6	25.2

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 1894.04 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.)