



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L20-835-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

[ISSUE DATE] 6-JAN-2020

[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-L30-835-LW-OF-WH-DIM-UNV

[\_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	3222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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	46011	58101	45576
55	21445	33615	20641
65	13971	16881	14043
75	9980	10693	10099
85	5998	5292	5998

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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>	1594.200	1594.200	1594.200	1594.200	1594.200
<b>5</b>	1594.200	1589.196	1585.621	1581.332	1580.617
<b>10</b>	1573.468	1565.605	1564.890	1559.885	1559.885
<b>15</b>	1537.009	1531.290	1525.571	1527.715	1529.860
<b>20</b>	1485.537	1478.388	1479.103	1483.392	1486.967
<b>25</b>	1429.061	1426.201	1414.763	1423.342	1426.201
<b>30</b>	1368.295	1356.857	1345.419	1352.568	1361.861
<b>35</b>	1268.211	1262.492	1266.781	1263.922	1237.471
<b>40</b>	1053.745	1083.055	1150.970	1093.064	1048.026
<b>45</b>	756.351	822.121	955.090	849.287	749.203
<b>50</b>	444.660	514.004	704.879	574.055	440.371
<b>55</b>	285.955	313.121	448.235	330.278	275.232
<b>60</b>	190.875	209.462	260.219	216.611	192.305
<b>65</b>	137.258	144.407	165.854	147.982	137.973
<b>70</b>	96.510	98.655	105.803	100.799	95.080
<b>75</b>	60.051	60.765	64.340	64.340	60.765
<b>80</b>	32.885	32.885	34.315	33.600	32.885
<b>85</b>	12.153	10.723	10.723	10.008	12.153
<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	582.40	N.A.	18.10
0-30	1238.61	N.A.	38.40
0-40	2016.99	N.A.	62.60
0-60	2985.84	N.A.	92.70
0-80	3206.7	N.A.	99.50
0-90	3221.73	N.A.	100.00
10-90	3071.02	N.A.	95.30
20-40	1434.59	N.A.	44.50
20-50	2077.3	N.A.	64.50
40-70	1121.52	N.A.	34.80
60-80	220.86	N.A.	6.90
70-80	68.19	N.A.	2.10
80-90	15.03	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	3221.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	150.71
10-20	431.69
20-30	656.21
30-40	778.38
40-50	642.71
50-60	326.13
60-70	152.67
70-80	68.19
80-90	15.03
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	179	179	179	179	175	175	175	175	167	167	167	160	160	160	154	154	154	151
1	168	162	157	152	164	159	154	150	152	149	145	147	144	141	141	139	137	134
2	155	145	137	130	152	143	135	129	138	131	126	133	128	123	128	124	120	117
3	144	131	121	113	141	129	119	112	124	116	110	120	114	108	117	111	106	103
4	134	118	107	99	130	116	106	98	113	104	97	110	102	95	106	100	94	91
5	124	107	96	87	121	106	95	87	103	93	86	100	92	85	97	90	84	81
6	116	98	86	78	113	97	85	77	94	84	77	92	83	76	89	82	75	73
7	108	90	78	70	105	88	77	69	86	76	69	84	75	69	82	74	68	65
8	101	82	71	63	99	81	70	63	80	70	62	78	69	62	76	68	62	59
9	94	76	65	57	92	75	64	57	74	64	57	72	63	57	71	62	56	54
10	89	70	60	52	87	70	59	52	68	59	52	67	58	52	66	58	52	49

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**UGR TABLE - CORRECTED**

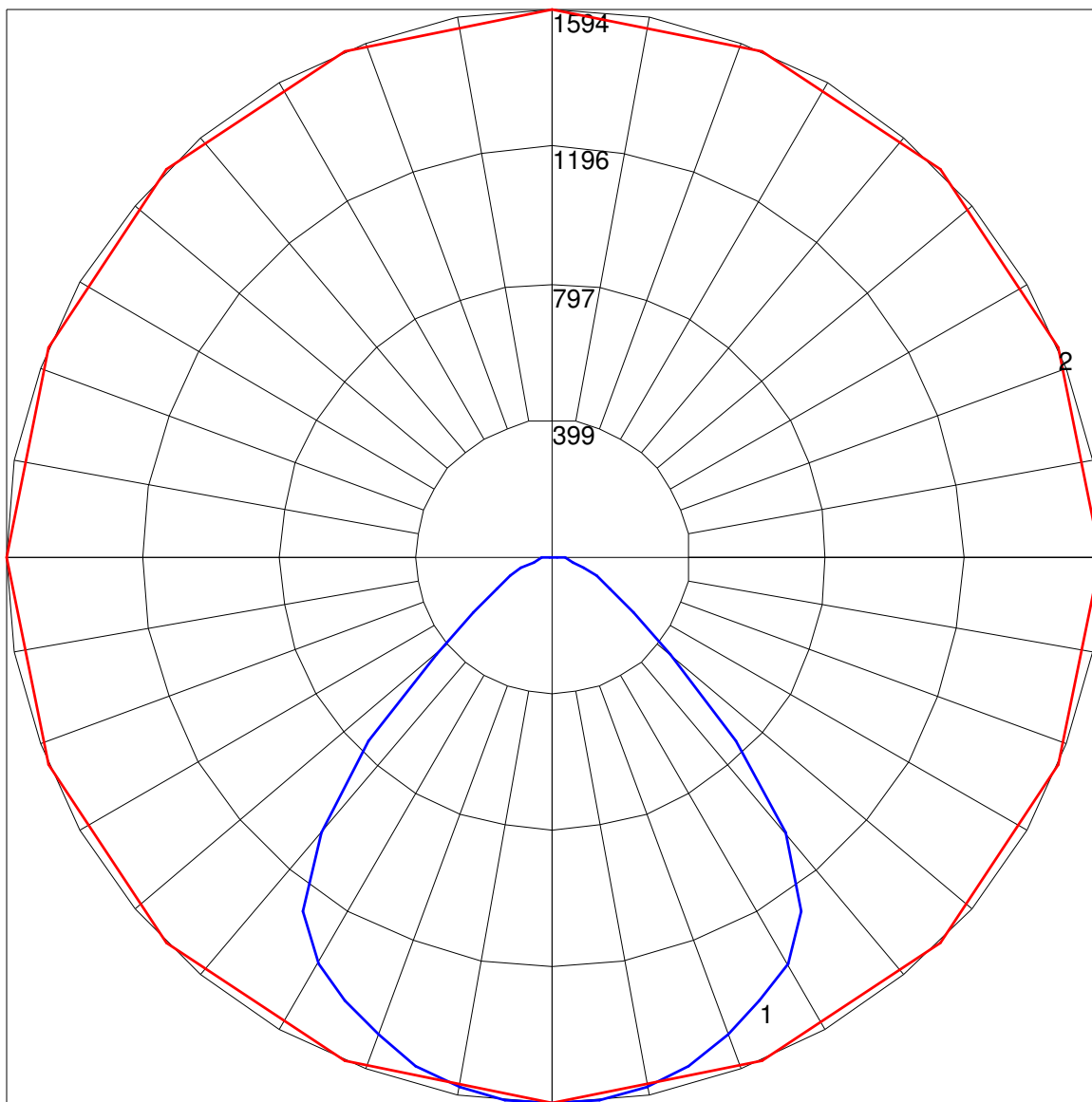
Reflectances

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	22.5	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 = 1594.2 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.)