



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L18-9TC-DIM-UNV-RW-OF-WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20354.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 24-APR-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"CAST WHITE REGRESS TRIM w/SOLITE

[MORE] LENS ADVANCE # XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L18-9TC-DIM-UNV-RW-OF-WH

[LAMPCAT] ARRAYA TUNABLE LED

[\_SEARCH\_SOURCE TYPE] 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	1771
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	40.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.10
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	15468	17956	15414
55	11735	11201	11535
65	8054	7239	7873
75	3546	3842	3398
85	1316	1316	1316

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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>	1258.904	1258.904	1258.904	1258.904	1258.904
<b>5</b>	1258.015	1257.125	1252.680	1252.680	1252.680
<b>10</b>	1247.346	1243.790	1242.901	1243.790	1239.344
<b>15</b>	1217.118	1219.785	1219.785	1218.896	1210.005
<b>20</b>	1160.218	1169.109	1185.112	1172.665	1154.884
<b>25</b>	1014.413	1056.199	1109.542	1067.757	1016.191
<b>30</b>	769.923	858.828	959.292	850.827	741.473
<b>35</b>	440.972	543.213	761.032	550.326	454.308
<b>40</b>	320.060	354.733	488.092	352.955	322.727
<b>45</b>	254.270	270.273	295.167	264.939	253.381
<b>50</b>	198.260	208.928	208.039	207.150	202.705
<b>55</b>	156.474	150.250	149.361	156.474	153.807
<b>60</b>	116.466	113.799	110.243	114.688	112.910
<b>65</b>	79.126	74.681	71.124	76.459	77.348
<b>70</b>	42.675	42.675	42.675	41.786	40.897
<b>75</b>	21.337	22.226	23.115	19.559	20.448
<b>80</b>	10.669	10.669	10.669	11.558	9.780
<b>85</b>	2.667	2.667	2.667	3.556	2.667
<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	462.31	N.A.	26.10
0-30	939.32	N.A.	53.00
0-40	1309.46	N.A.	73.90
0-60	1665.87	N.A.	94.10
0-80	1766.67	N.A.	99.70
0-90	1771.18	N.A.	100.00
10-90	1651.77	N.A.	93.30
20-40	847.14	N.A.	47.80
20-50	1063.98	N.A.	60.10
40-70	431.95	N.A.	24.40
60-80	100.80	N.A.	5.70
70-80	25.27	N.A.	1.40
80-90	4.51	N.A.	0.30
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	1771.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	119.40
10-20	342.91
20-30	477.00
30-40	370.14
40-50	216.84
50-60	139.57
60-70	75.54
70-80	25.27
80-90	4.51
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

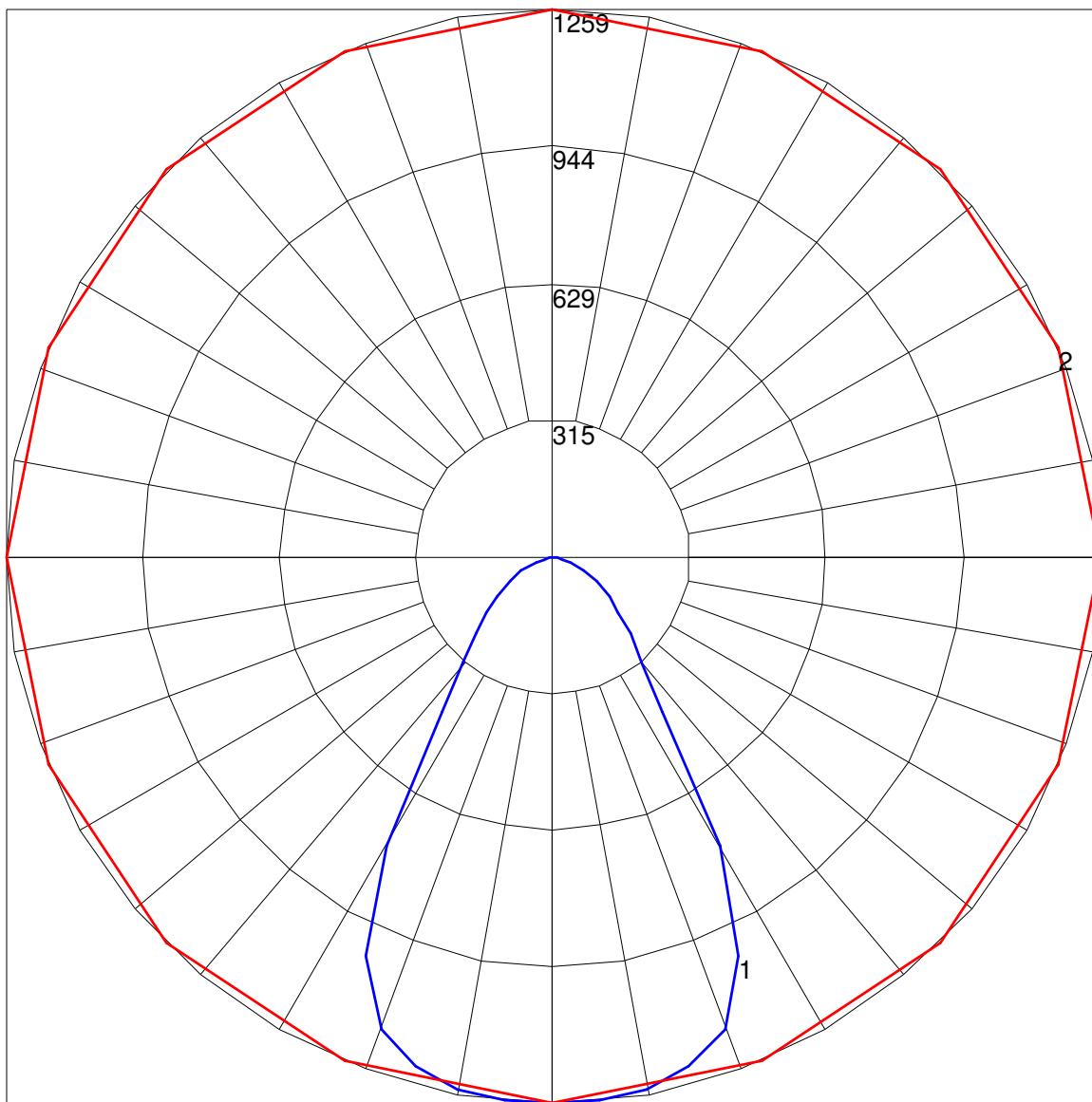
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	41	51	45	41	50	45	41	40

POLAR GRAPH



Maximum Candela = 1258.904 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.)