



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20349.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 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 FLUSH TRIM w/SOLITE

[MORE] LENS ADVANCE # XI025C070V054DSM1 @ 560mA

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

[LAMPCAT] ARRAYA TUNABLE LED

[_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	1667
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	40.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.06
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	15519	17910	15177
55	12093	12393	11972
65	8410	8410	8165
75	5333	5200	5066
85	1188	792	1584

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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	1125.506	1125.506	1125.506	1125.506	1125.506
5	1128.715	1123.099	1123.099	1122.297	1124.704
10	1118.286	1113.473	1112.670	1108.659	1115.077
15	1103.044	1095.022	1088.604	1085.395	1088.604
20	1048.493	1059.724	1065.340	1050.900	1037.262
25	918.535	944.206	1013.196	953.832	922.546
30	685.893	766.114	864.786	771.730	686.695
35	420.360	506.197	677.871	478.119	421.964
40	317.677	348.963	464.482	335.325	313.666
45	255.104	270.346	294.412	263.126	249.488
50	204.565	213.389	219.807	208.576	204.565
55	161.245	161.245	165.256	162.047	159.641
60	117.123	117.925	116.321	116.321	118.728
65	82.628	82.628	82.628	81.826	80.221
70	54.551	53.748	50.539	52.946	53.748
75	32.089	31.286	31.286	30.484	30.484
80	17.649	16.044	15.242	15.242	15.242
85	2.407	3.209	1.604	2.407	3.209
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	414.50	N.A.	24.90
0-30	844.55	N.A.	50.70
0-40	1182.94	N.A.	71.00
0-60	1543.91	N.A.	92.60
0-80	1660.99	N.A.	99.70
0-90	1666.64	N.A.	100.00
10-90	1559.73	N.A.	93.60
20-40	768.44	N.A.	46.10
20-50	983.55	N.A.	59.00
40-70	443.58	N.A.	26.60
60-80	117.08	N.A.	7.00
70-80	34.47	N.A.	2.10
80-90	5.65	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	1666.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	106.90
10-20	307.60
20-30	430.05
30-40	338.39
40-50	215.11
50-60	145.86
60-70	82.61
70-80	34.47
80-90	5.65
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

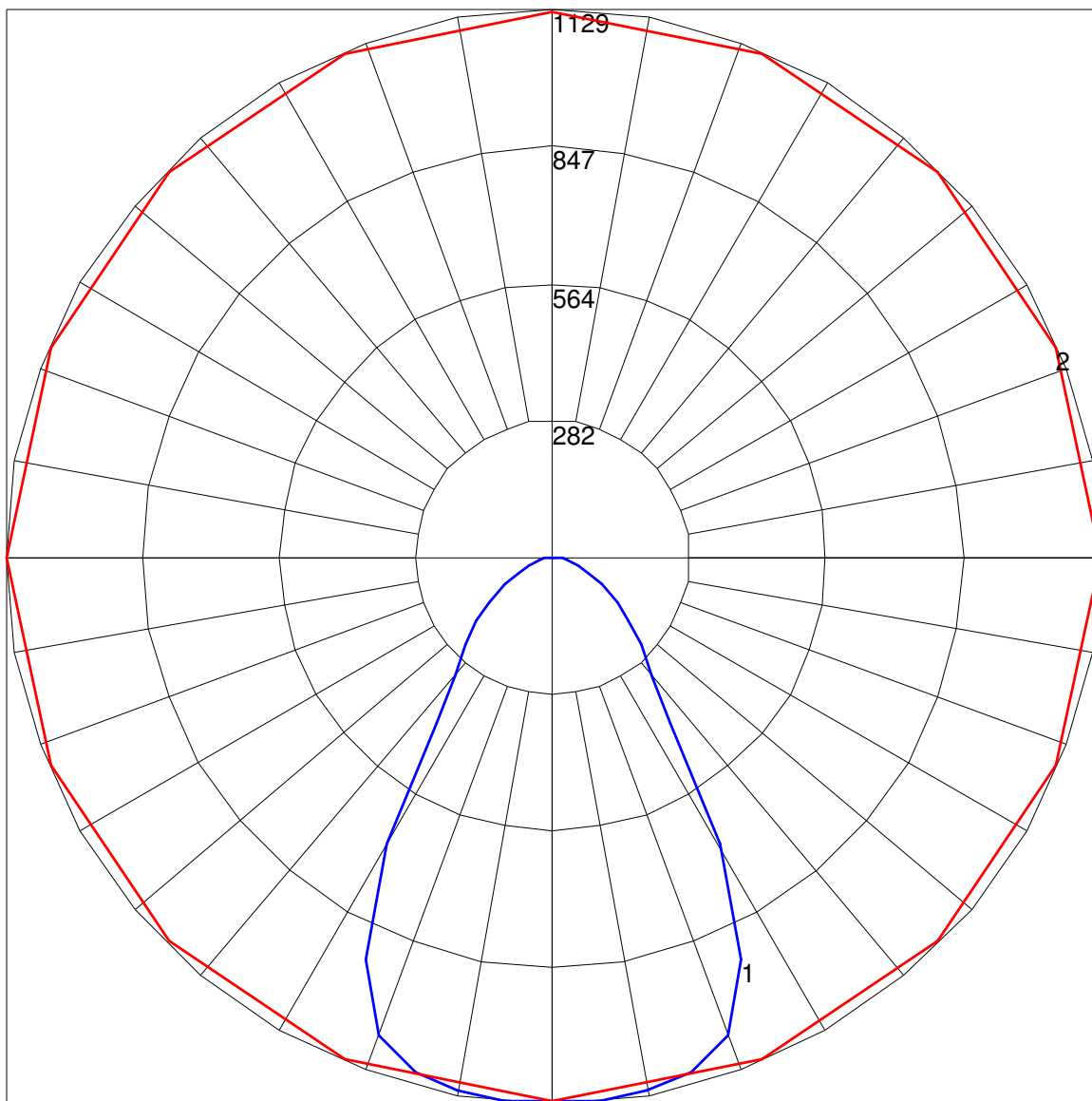
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	56	65	59	55	63	58	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	71	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38

POLAR GRAPH



Maximum Candela = 1128.715 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)