



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L13-9DW-DIM-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 LENS

[LUMCAT] 6DS-L13-9DW-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	1334
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	23.4
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	12419	14332	12145
55	9677	9918	9581
65	6730	6730	6534
75	4268	4161	4054
85	951	634	1267

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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	900.675	900.675	900.675	900.675	900.675
5	903.243	898.749	898.749	898.107	900.033
10	894.897	891.045	890.403	887.193	892.329
15	882.700	876.280	871.144	868.577	871.144
20	839.046	848.034	852.527	840.972	830.059
25	735.048	755.591	810.800	763.295	738.258
30	548.879	613.075	692.037	617.569	549.521
35	336.389	405.079	542.459	382.610	337.673
40	254.218	279.254	371.697	268.341	251.008
45	204.144	216.342	235.601	210.564	199.651
50	163.701	170.762	175.898	166.910	163.701
55	129.035	129.035	132.244	129.677	127.751
60	93.727	94.369	93.085	93.085	95.011
65	66.122	66.122	66.122	65.480	64.196
70	43.654	43.012	40.444	42.370	43.012
75	25.679	25.037	25.037	24.395	24.395
80	14.123	12.839	12.197	12.197	12.197
85	1.926	2.568	1.284	1.926	2.568
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	331.70	N.A.	24.90
0-30	675.84	N.A.	50.70
0-40	946.64	N.A.	71.00
0-60	1235.5	N.A.	92.60
0-80	1329.19	N.A.	99.70
0-90	1333.71	N.A.	100.00
10-90	1248.16	N.A.	93.60
20-40	614.94	N.A.	46.10
20-50	787.08	N.A.	59.00
40-70	354.97	N.A.	26.60
60-80	93.69	N.A.	7.00
70-80	27.58	N.A.	2.10
80-90	4.52	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	1333.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.55
10-20	246.15
20-30	344.14
30-40	270.80
40-50	172.14
50-60	116.72
60-70	66.11
70-80	27.58
80-90	4.52
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

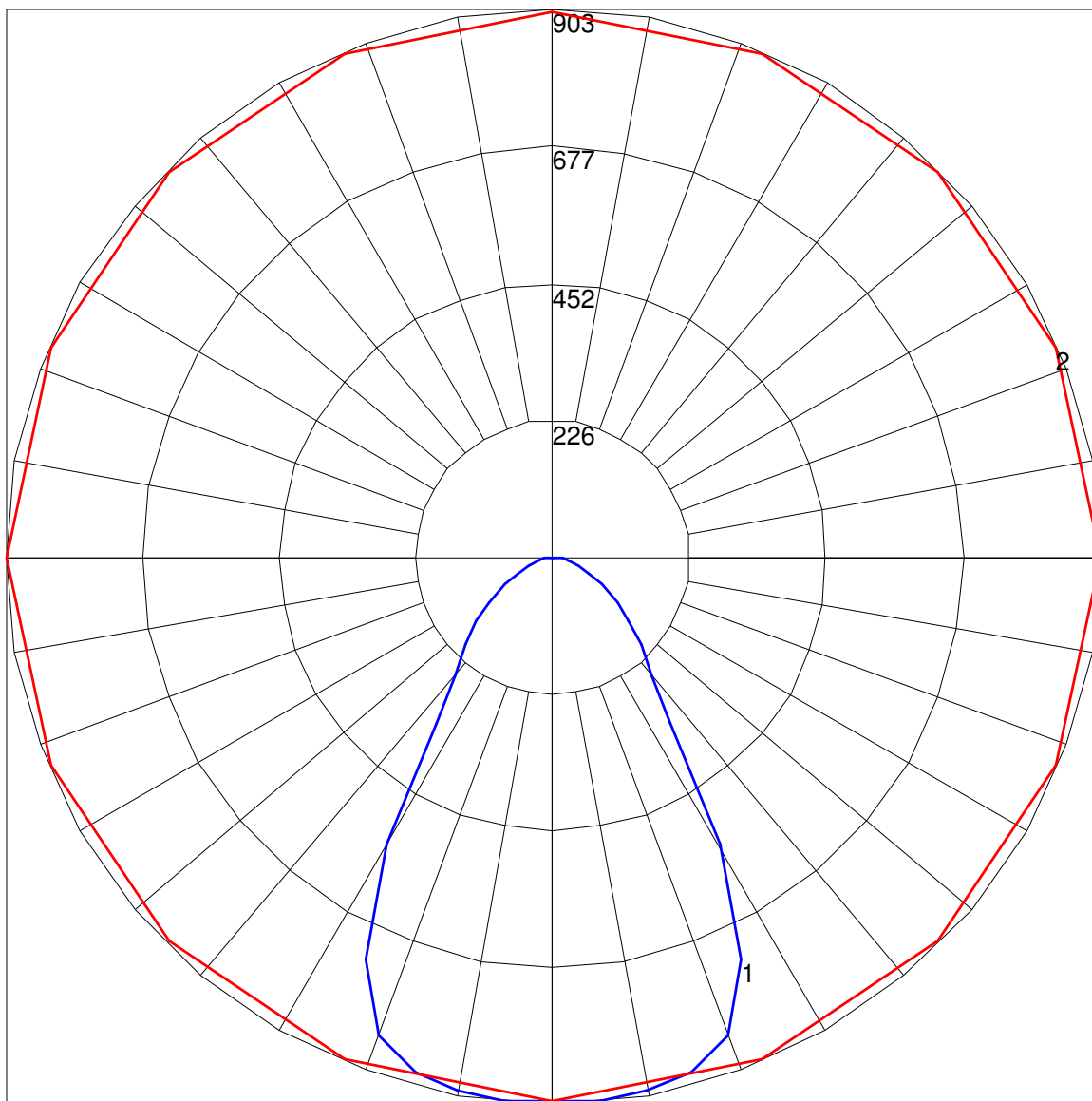
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	72	72	72	72	71	71	71	71	68	68	68	65	65	65	62	62	62	61
1	68	66	64	62	66	64	63	61	62	61	59	60	58	57	57	57	56	55
2	63	60	56	54	62	58	56	53	56	54	52	55	53	51	53	51	50	49
3	59	54	50	47	58	53	50	47	52	49	46	50	47	45	49	46	45	43
4	55	49	45	42	54	49	45	42	47	44	41	46	43	41	45	42	40	39
5	52	45	41	38	51	45	41	38	44	40	37	42	39	37	41	39	36	35
6	48	42	37	34	47	41	37	34	40	37	34	39	36	34	38	36	33	32
7	46	39	34	31	45	38	34	31	37	34	31	37	33	31	36	33	31	29
8	43	36	32	29	42	36	31	29	35	31	28	34	31	28	33	30	28	27
9	40	34	29	26	40	33	29	26	33	29	26	32	29	26	31	28	26	25
10	38	31	27	24	38	31	27	24	30	27	24	30	27	24	29	26	24	23

POLAR GRAPH



Maximum Candela = 903.243 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.)