



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L21-9DW-DIM-UNV-LW-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20316.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 16-APR-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 4"CAST WHITE FLUSH w/SOLITE LENS

[MORE] ADVANCE # XI025C070V054DSMI @ 625mA

[LUMCAT] 4DS-L21-9DW-DIM-UNV-LW-OF-WH

[LAMPCAT] BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Office, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1956
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	0.98
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	41433	44962	41040
55	30937	31743	30776
65	22087	21431	21650
75	14998	14640	14998
85	5302	4242	6362

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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	1454.278	1454.278	1454.278	1454.278	1454.278
5	1440.936	1441.889	1440.936	1441.889	1441.889
10	1406.628	1407.581	1412.346	1421.876	1423.782
15	1358.978	1369.461	1378.991	1387.568	1387.568
20	1245.571	1286.550	1312.281	1309.422	1283.691
25	1054.971	1119.775	1194.109	1126.446	1057.830
30	718.562	831.016	991.120	826.251	697.596
35	477.453	530.821	726.186	528.915	467.923
40	372.623	393.589	460.299	387.871	362.140
45	302.101	314.490	327.832	308.772	299.242
50	239.203	255.404	252.545	245.874	238.250
55	182.976	187.741	187.741	186.788	182.023
60	134.373	137.232	136.279	136.279	134.373
65	96.253	97.206	93.394	96.253	94.347
70	63.851	67.663	62.898	64.804	63.851
75	40.026	40.026	39.073	39.073	40.026
80	20.966	20.013	20.013	20.966	21.919
85	4.765	4.765	3.812	3.812	5.718
90	0.000	0.000	0.000	0.953	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	522.46	N.A.	26.70
0-30	1024.46	N.A.	52.40
0-40	1392.5	N.A.	71.20
0-60	1807.23	N.A.	92.40
0-80	1947.5	N.A.	99.60
0-90	1955.57	N.A.	100.00
10-90	1818.79	N.A.	93.00
20-40	870.04	N.A.	44.50
20-50	1115.84	N.A.	57.10
40-70	511.62	N.A.	26.20
60-80	140.27	N.A.	7.20
70-80	43.37	N.A.	2.20
80-90	8.07	N.A.	0.40
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	1955.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.78
10-20	385.68
20-30	502.00
30-40	368.04
40-50	245.80
50-60	168.92
60-70	96.90
70-80	43.37
80-90	8.07
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

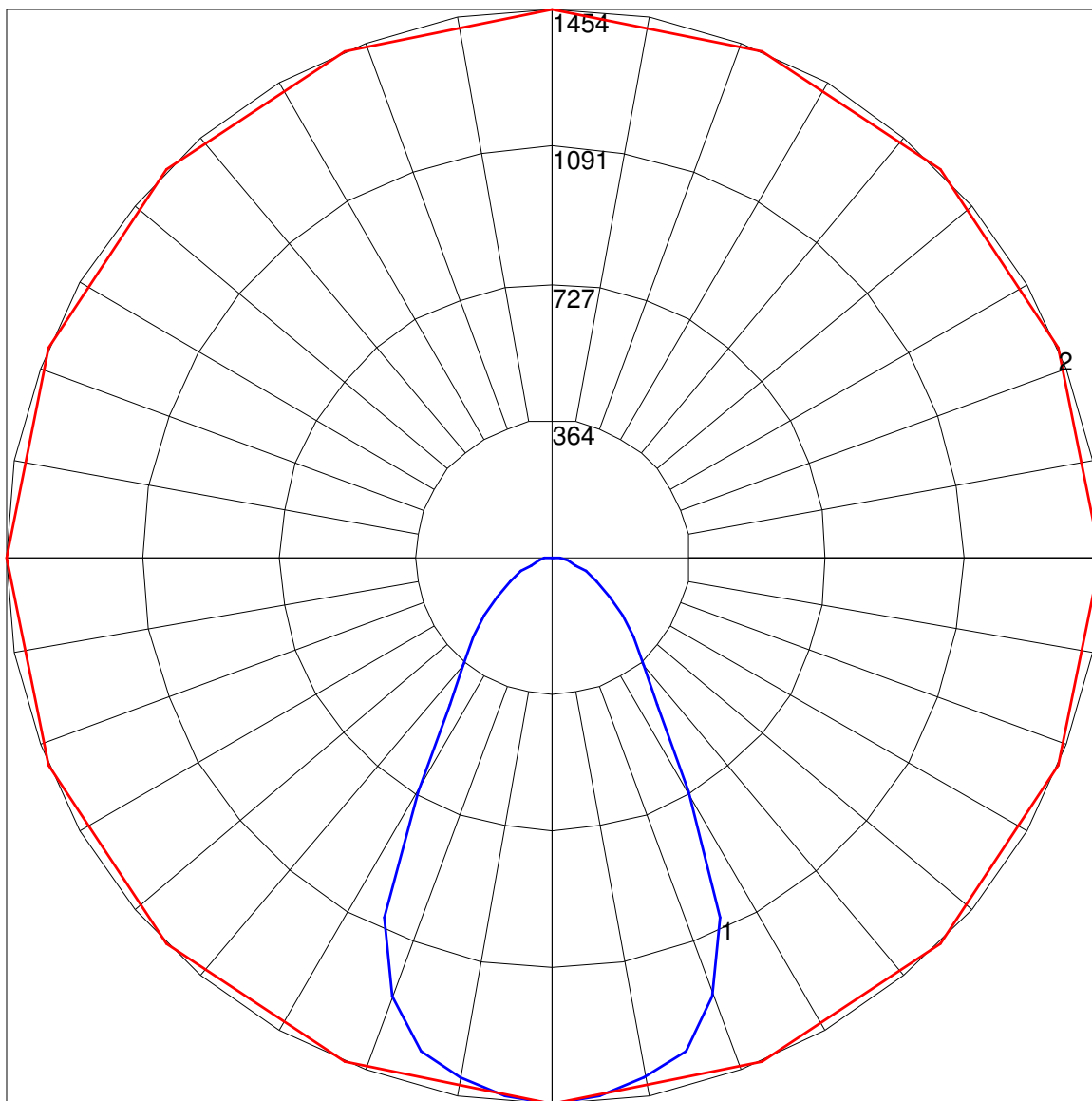
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	111	111	111	111	106	106	106	101	101	101	97	97	97	95
1	106	103	100	97	104	101	98	96	97	95	93	93	92	90	90	89	87	86
2	99	94	89	84	97	92	87	84	89	85	82	86	83	80	83	80	78	76
3	93	85	79	74	91	84	78	74	81	76	73	79	75	71	76	73	70	68
4	87	78	71	66	85	77	71	66	75	69	65	72	68	64	71	67	63	62
5	81	72	65	60	80	71	64	59	69	63	59	67	62	58	65	61	58	56
6	76	66	59	54	75	65	59	54	64	58	54	62	57	53	61	56	53	51
7	72	61	54	50	70	61	54	49	59	53	49	58	53	49	57	52	49	47
8	68	57	50	46	66	56	50	45	55	49	45	54	49	45	53	48	45	43
9	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40
10	61	50	43	39	60	49	43	39	49	43	39	48	43	39	47	42	39	37

POLAR GRAPH



Maximum Candela = 1454.278 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.)