



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L40-835-DIM-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

[LUMCAT] 4DS-L40-835-DIM-UNV-LW-OF-WH

[_SEARCH_SOURCE]TYPE] 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	4012
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	45
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	85003	92243	84198
55	63470	65123	63139
65	45314	43968	44417
75	30769	30036	30769
85	10878	8702	13053

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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	2983.583	2983.583	2983.583	2983.583	2983.583
5	2956.211	2958.166	2956.211	2958.166	2958.166
10	2885.825	2887.780	2897.556	2917.108	2921.018
15	2788.067	2809.574	2829.125	2846.722	2846.722
20	2555.402	2639.474	2692.264	2686.398	2633.609
25	2164.369	2297.320	2449.823	2311.006	2170.234
30	1474.195	1704.905	2033.373	1695.129	1431.181
35	979.538	1089.027	1489.836	1085.117	959.986
40	764.470	807.484	944.345	795.753	742.963
45	619.788	645.205	672.577	633.474	613.922
50	490.747	523.984	518.119	504.433	488.791
55	375.392	385.168	385.168	383.213	373.437
60	275.678	281.544	279.589	279.589	275.678
65	197.472	199.427	191.606	197.472	193.561
70	130.996	138.817	129.041	132.951	130.996
75	82.117	82.117	80.162	80.162	82.117
80	43.014	41.058	41.058	43.014	44.969
85	9.776	9.776	7.821	7.821	11.731
90	0.000	0.000	0.000	1.955	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1071.88	N.A.	26.70
0-30	2101.78	N.A.	52.40
0-40	2856.85	N.A.	71.20
0-60	3707.69	N.A.	92.40
0-80	3995.47	N.A.	99.60
0-90	4012.02	N.A.	100.00
10-90	3731.41	N.A.	93.00
20-40	1784.96	N.A.	44.50
20-50	2289.25	N.A.	57.10
40-70	1049.64	N.A.	26.20
60-80	287.78	N.A.	7.20
70-80	88.98	N.A.	2.20
80-90	16.56	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	4012.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	280.61
10-20	791.27
20-30	1029.89
30-40	755.07
40-50	504.29
50-60	346.56
60-70	198.79
70-80	88.98
80-90	16.56
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

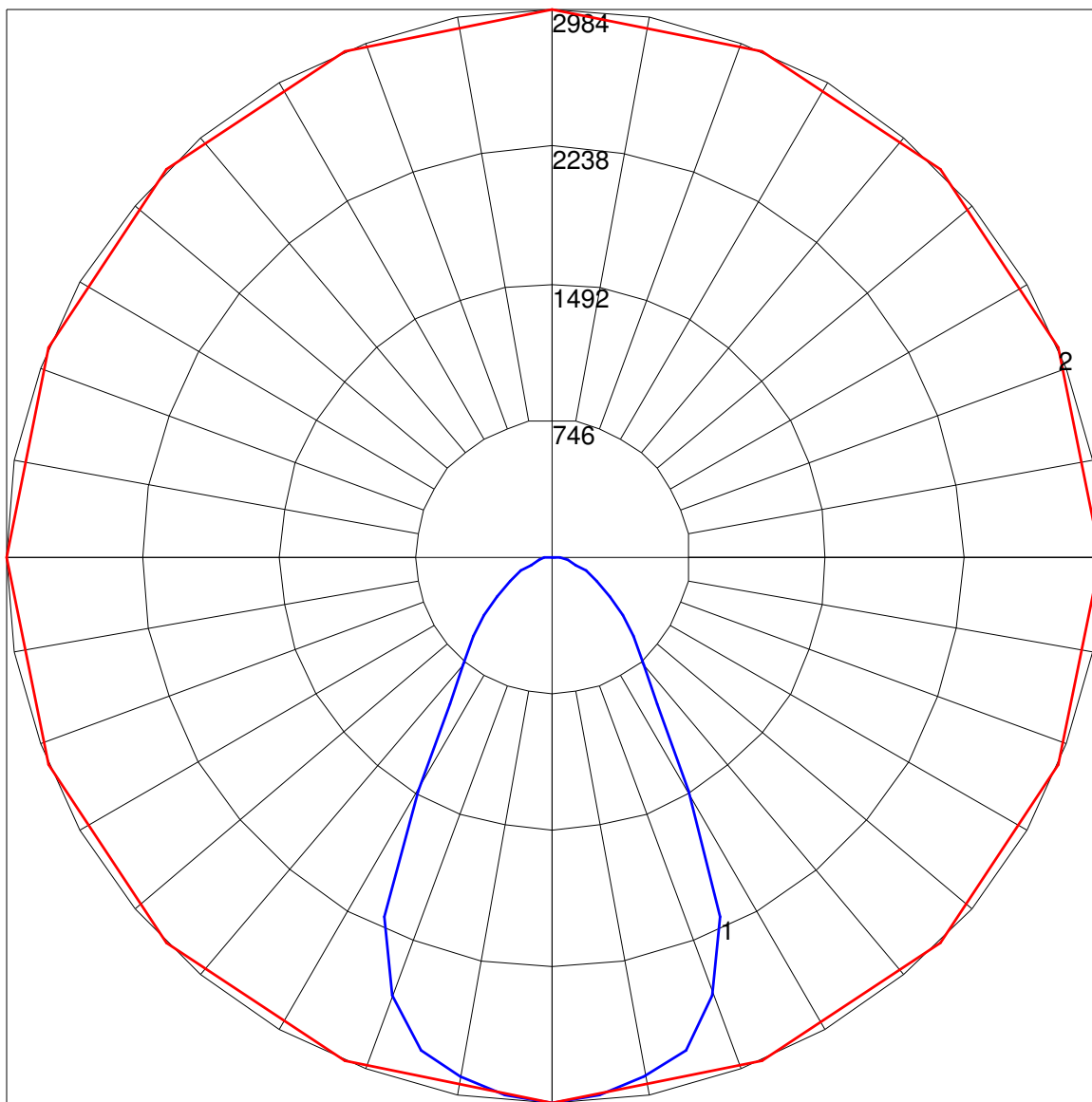
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	233	233	233	233	227	227	227	227	217	217	217	208	208	208	200	200	200	196
1	218	212	205	200	213	207	202	197	199	195	191	192	188	185	185	182	179	176
2	204	192	182	173	199	188	179	171	182	174	167	176	169	164	170	165	160	157
3	190	175	162	153	186	172	160	151	166	157	149	161	153	146	157	150	144	140
4	178	160	146	136	174	157	145	135	153	142	133	149	139	132	145	137	130	127
5	167	147	133	122	163	145	132	122	141	129	121	138	127	119	134	125	118	115
6	157	136	121	111	153	134	120	111	131	119	110	128	117	109	125	116	108	105
7	147	126	112	102	144	124	111	101	121	109	101	119	108	100	117	107	100	96
8	139	117	103	94	136	116	102	93	113	101	93	111	100	92	109	99	92	89
9	131	109	96	87	129	108	95	86	106	94	86	104	93	86	102	93	85	82
10	124	102	89	80	122	101	89	80	100	88	80	98	87	80	96	87	79	77

POLAR GRAPH



Maximum Candela = 2983.583 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.)