



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-P40-835-DIM-POE-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-P40-835-DIM-PoE-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	3965
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	37.5
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	36916	42604	36103
55	28766	29481	28479
65	20006	20006	19423
75	12686	12369	12052
85	2826	1884	3767

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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	2677.345	2677.345	2677.345	2677.345	2677.345
5	2684.978	2671.620	2671.620	2669.712	2675.437
10	2660.170	2648.720	2646.812	2637.271	2652.537
15	2623.913	2604.830	2589.563	2581.930	2589.563
20	2494.148	2520.864	2534.222	2499.873	2467.432
25	2185.004	2246.069	2410.183	2268.969	2194.545
30	1631.597	1822.427	2057.147	1835.785	1633.505
35	999.949	1204.137	1612.514	1137.347	1003.766
40	755.687	830.111	1104.906	797.669	746.145
45	606.839	643.097	700.346	625.922	593.481
50	486.617	507.608	522.874	496.158	486.617
55	383.568	383.568	393.110	385.477	379.752
60	278.612	280.520	276.704	276.704	282.428
65	196.555	196.555	196.555	194.647	190.830
70	129.764	127.856	120.223	125.948	127.856
75	76.332	74.424	74.424	72.515	72.515
80	41.983	38.166	36.258	36.258	36.258
85	5.725	7.633	3.817	5.725	7.633
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	986.01	N.A.	24.90
0-30	2009.00	N.A.	50.70
0-40	2813.97	N.A.	71.00
0-60	3672.64	N.A.	92.60
0-80	3951.16	N.A.	99.70
0-90	3964.58	N.A.	100.00
10-90	3710.29	N.A.	93.60
20-40	1827.96	N.A.	46.10
20-50	2339.66	N.A.	59.00
40-70	1055.19	N.A.	26.60
60-80	278.52	N.A.	7.00
70-80	81.99	N.A.	2.10
80-90	13.43	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	3964.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	254.30
10-20	731.71
20-30	1022.99
30-40	804.97
40-50	511.70
50-60	346.97
60-70	196.52
70-80	81.99
80-90	13.43
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

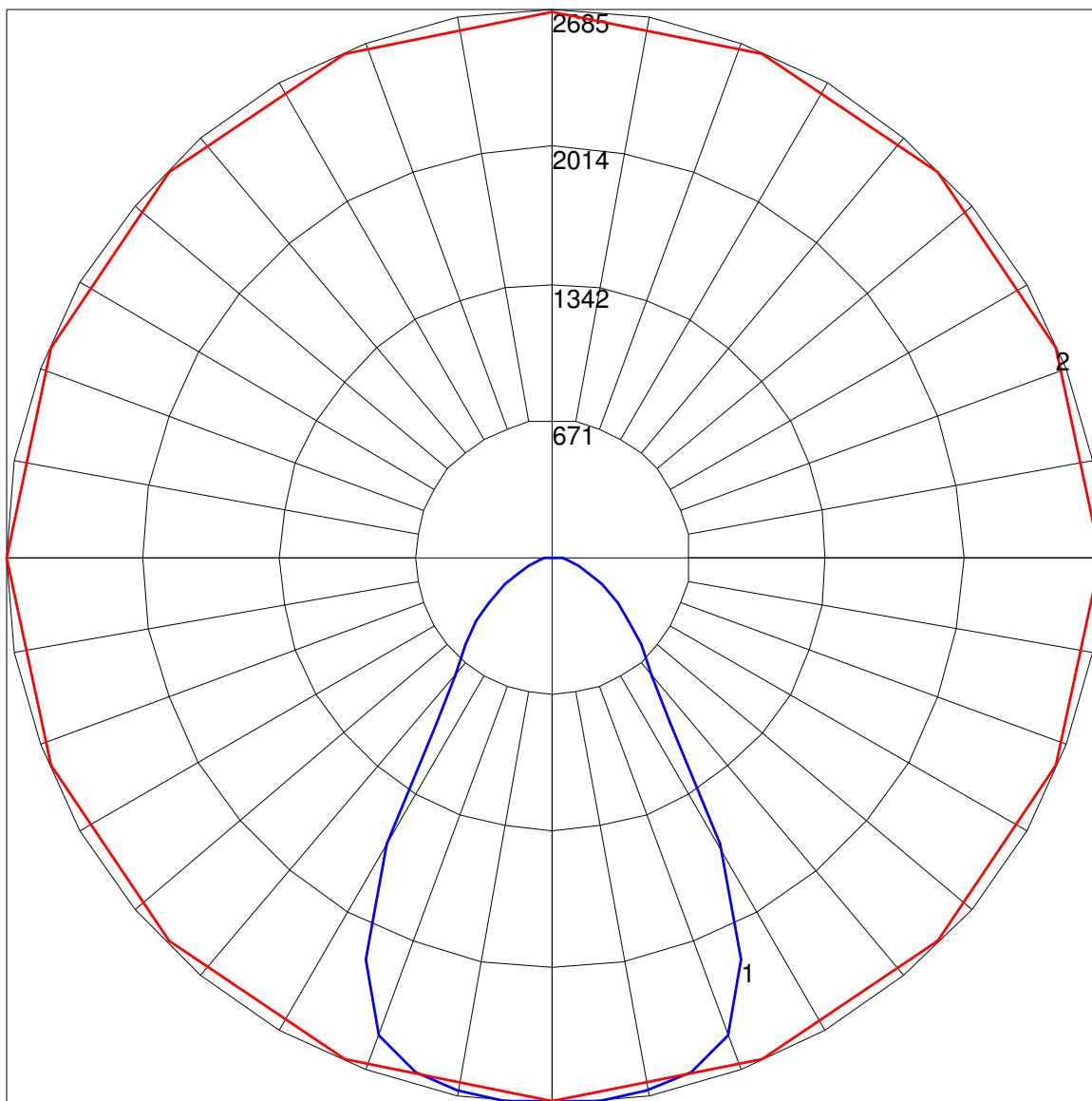
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	227	227	227	227	222	222	222	222	212	212	212	203	203	203	195	195	195	191
1	213	206	200	195	208	202	197	192	194	190	186	187	184	180	180	178	175	171
2	199	187	177	169	194	184	175	167	177	170	163	171	165	160	166	161	156	153
3	186	170	158	148	181	167	156	147	162	152	145	157	149	142	152	146	140	136
4	173	155	142	132	169	153	141	131	149	138	129	144	135	128	141	133	126	123
5	162	142	129	118	159	140	128	118	137	125	117	133	123	116	130	121	114	111
6	152	131	117	107	149	130	116	107	126	115	106	124	113	105	121	112	104	101
7	143	121	108	98	140	120	107	98	117	106	97	115	104	96	112	103	96	93
8	135	113	99	90	132	112	99	90	109	97	89	107	96	89	105	95	88	85
9	127	105	92	83	125	104	91	83	102	90	82	100	90	82	98	89	82	79
10	120	98	85	77	118	97	85	77	96	84	76	94	84	76	93	83	76	73

POLAR GRAPH



Maximum Candela = 2684.978 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.)