



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L50-835-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

[ISSUE DATE] 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

[LUMCAT] 6DS-L50-835-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	5137
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	52
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	47832	55202	46779
55	37272	38199	36901
65	25922	25922	25167
75	16438	16027	15616
85	3661	2441	4881

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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	3469.058	3469.058	3469.058	3469.058	3469.058
5	3478.948	3461.640	3461.640	3459.167	3466.585
10	3446.804	3431.969	3429.496	3417.133	3436.914
15	3399.825	3375.099	3355.318	3345.428	3355.318
20	3231.688	3266.305	3283.613	3239.106	3197.072
25	2831.127	2910.250	3122.894	2939.921	2843.490
30	2114.073	2361.333	2665.463	2378.641	2116.546
35	1295.642	1560.211	2089.347	1473.670	1300.588
40	979.150	1075.581	1431.635	1033.547	966.787
45	786.287	833.266	907.444	811.013	768.979
50	630.513	657.712	677.492	642.876	630.513
55	496.993	496.993	509.356	499.465	492.047
60	361.000	363.472	358.527	358.527	365.945
65	254.678	254.678	254.678	252.205	247.260
70	168.137	165.664	155.774	163.192	165.664
75	98.904	96.431	96.431	93.959	93.959
80	54.397	49.452	46.979	46.979	46.979
85	7.418	9.890	4.945	7.418	9.890
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1277.58	N.A.	24.90
0-30	2603.08	N.A.	50.70
0-40	3646.08	N.A.	71.00
0-60	4758.67	N.A.	92.60
0-80	5119.54	N.A.	99.70
0-90	5136.94	N.A.	100.00
10-90	4807.45	N.A.	93.60
20-40	2368.5	N.A.	46.10
20-50	3031.51	N.A.	59.00
40-70	1367.22	N.A.	26.60
60-80	360.87	N.A.	7.00
70-80	106.24	N.A.	2.10
80-90	17.40	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	5136.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	329.50
10-20	948.09
20-30	1325.49
30-40	1043.00
40-50	663.02
50-60	449.57
60-70	254.63
70-80	106.24
80-90	17.40
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

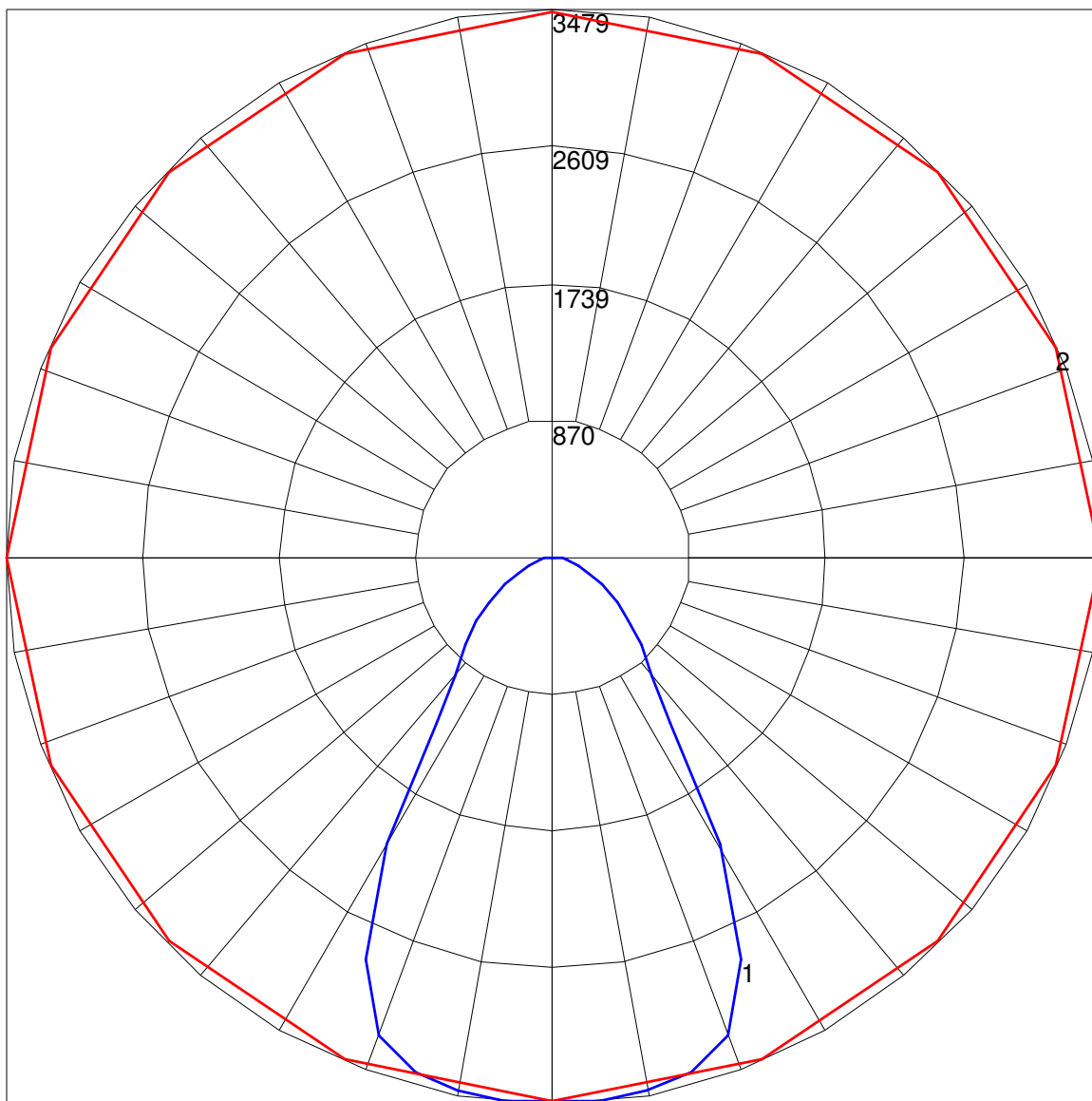
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	294	294	294	294	287	287	287	287	275	275	275	263	263	263	252	252	252	247
1	276	267	260	253	270	262	255	249	252	246	241	242	238	234	234	230	227	222
2	258	242	230	219	252	238	226	216	230	220	211	222	214	207	215	208	202	198
3	240	220	205	192	235	217	202	191	210	197	187	203	193	184	198	189	181	177
4	225	201	184	171	220	198	182	170	192	179	168	187	175	166	182	172	164	159
5	210	185	167	153	206	182	165	153	177	162	151	173	160	150	169	157	148	144
6	197	170	152	139	193	168	151	138	164	149	137	160	147	136	157	145	135	131
7	185	157	139	127	181	156	138	126	152	137	126	149	135	125	146	133	124	120
8	174	146	128	116	171	145	128	116	142	126	115	139	125	115	136	124	114	110
9	165	136	119	107	161	135	118	107	132	117	107	130	116	106	128	115	106	102
10	156	127	111	99	153	126	110	99	124	109	99	122	108	99	120	107	98	94

POLAR GRAPH



Maximum Candela = 3478.948 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.)