



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L70-835-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-L70-835-DIM-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	7038
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	78.1
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	65531	75628	64088
55	51063	52333	50555
65	35513	35513	34479
75	22520	21957	21394
85	5016	3344	6688

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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	4752.663	4752.663	4752.663	4752.663	4752.663
5	4766.213	4742.500	4742.500	4739.113	4749.275
10	4722.175	4701.850	4698.463	4681.525	4708.625
15	4657.813	4623.938	4596.838	4583.288	4596.838
20	4427.463	4474.888	4498.600	4437.625	4380.038
25	3878.688	3987.088	4278.413	4027.738	3895.625
30	2896.313	3235.063	3651.725	3258.775	2899.700
35	1775.050	2137.513	2862.438	2018.950	1781.825
40	1341.450	1473.563	1961.363	1415.975	1324.513
45	1077.225	1141.588	1243.213	1111.100	1053.513
50	863.813	901.075	928.175	880.750	863.813
55	680.888	680.888	697.825	684.275	674.113
60	494.575	497.963	491.188	491.188	501.350
65	348.913	348.913	348.913	345.525	338.750
70	230.350	226.963	213.413	223.575	226.963
75	135.500	132.113	132.113	128.725	128.725
80	74.525	67.750	64.363	64.363	64.363
85	10.163	13.550	6.775	10.163	13.550
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1750.31	N.A.	24.90
0-30	3566.26	N.A.	50.70
0-40	4995.19	N.A.	71.00
0-60	6519.45	N.A.	92.60
0-80	7013.85	N.A.	99.70
0-90	7037.69	N.A.	100.00
10-90	6586.28	N.A.	93.60
20-40	3244.88	N.A.	46.10
20-50	4153.22	N.A.	59.00
40-70	1873.11	N.A.	26.60
60-80	494.40	N.A.	7.00
70-80	145.55	N.A.	2.10
80-90	23.84	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	7037.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	451.42
10-20	1298.89
20-30	1815.95
30-40	1428.93
40-50	908.34
50-60	615.92
60-70	348.85
70-80	145.55
80-90	23.84
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

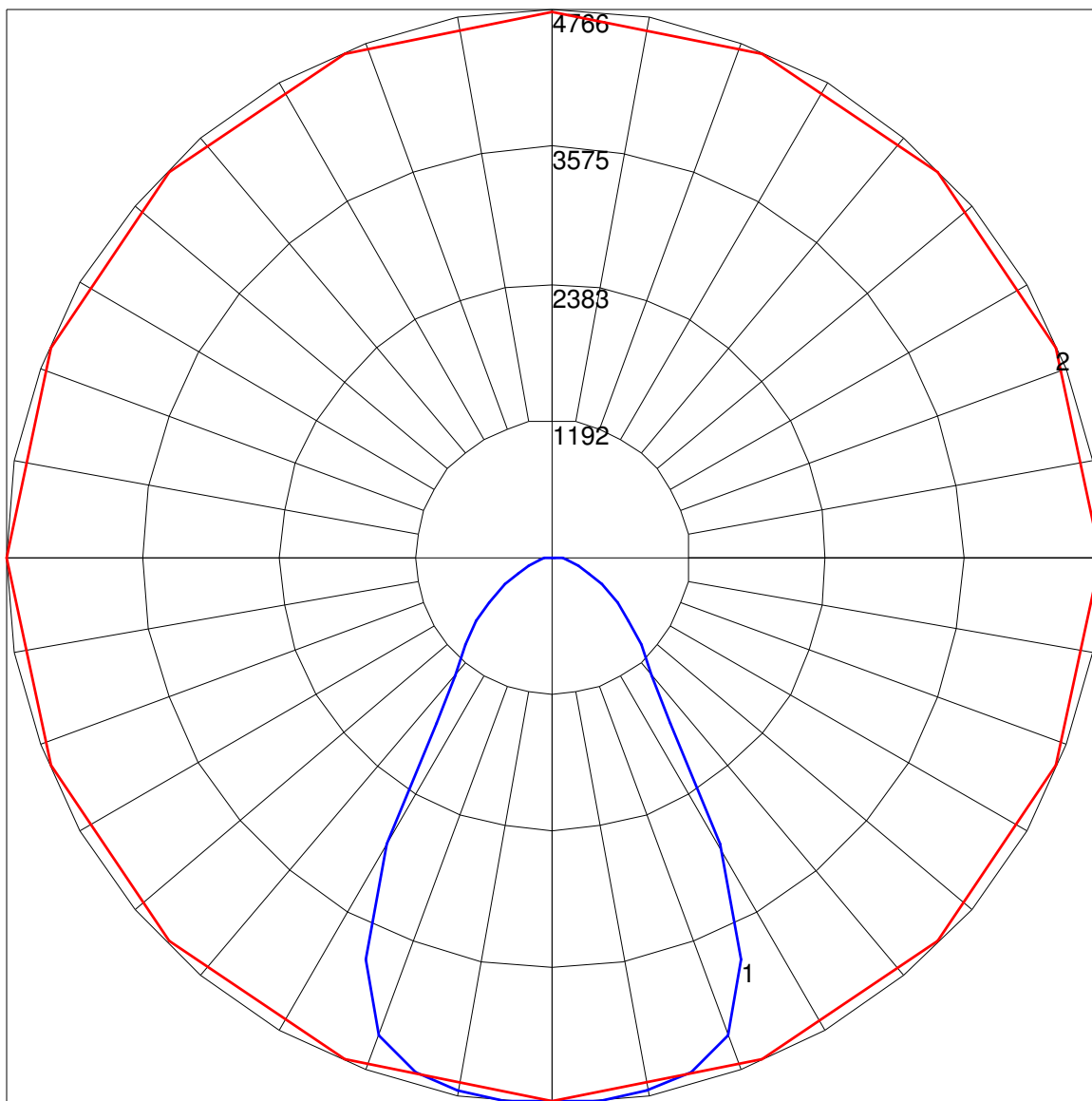
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	403	403	403	403	394	394	394	394	376	376	376	360	360	360	346	346	346	339
1	378	366	356	346	370	359	349	340	345	337	330	332	326	320	320	315	311	304
2	353	332	314	300	345	326	310	296	314	301	290	304	293	283	294	285	277	271
3	329	302	280	263	322	297	277	261	287	271	257	279	264	253	271	259	248	242
4	308	276	252	234	301	271	250	233	264	245	230	256	240	227	250	236	224	218
5	288	253	228	210	282	249	226	209	243	223	207	237	219	205	231	216	203	197
6	270	233	208	190	264	230	207	190	224	204	188	219	201	187	214	198	185	180
7	254	216	191	174	248	213	190	173	208	187	172	204	185	171	200	183	170	164
8	239	200	176	159	234	198	175	159	194	173	158	190	171	157	187	169	157	151
9	225	187	163	147	221	185	162	147	181	161	146	178	159	145	175	158	145	140
10	213	175	152	136	209	173	151	136	170	150	135	167	148	135	164	147	135	129

POLAR GRAPH



Maximum Candela = 4766.213 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.)