



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L30-835-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-L30-835-DIM-UNV-LW-OF-WH

[_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	3046
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	36
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	64536	70033	63925
55	48188	49443	47937
65	34403	33382	33722
75	23360	22804	23360
85	8258	6607	9910

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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	2265.202	2265.202	2265.202	2265.202	2265.202
5	2244.420	2245.905	2244.420	2245.905	2245.905
10	2190.982	2192.466	2199.888	2214.732	2217.701
15	2116.762	2133.090	2147.934	2161.294	2161.294
20	1940.117	2003.947	2044.026	2039.573	1999.494
25	1643.236	1744.176	1859.960	1754.567	1647.690
30	1119.241	1294.401	1543.781	1286.979	1086.584
35	743.687	826.814	1131.117	823.845	728.843
40	580.402	613.059	716.968	604.153	564.074
45	470.556	489.854	510.635	480.947	466.103
50	372.586	397.821	393.367	382.977	371.101
55	285.006	292.428	292.428	290.943	283.521
60	209.301	213.754	212.270	212.270	209.301
65	149.925	151.409	145.472	149.925	146.956
70	99.455	105.393	97.971	100.940	99.455
75	62.345	62.345	60.861	60.861	62.345
80	32.657	31.173	31.173	32.657	34.141
85	7.422	7.422	5.938	5.938	8.906
90	0.000	0.000	0.000	1.484	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	813.80	N.A.	26.70
0-30	1595.71	N.A.	52.40
0-40	2168.98	N.A.	71.20
0-60	2814.96	N.A.	92.40
0-80	3033.45	N.A.	99.60
0-90	3046.02	N.A.	100.00
10-90	2832.97	N.A.	93.00
20-40	1355.18	N.A.	44.50
20-50	1738.05	N.A.	57.10
40-70	796.91	N.A.	26.20
60-80	218.49	N.A.	7.20
70-80	67.56	N.A.	2.20
80-90	12.57	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	3046.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	213.05
10-20	600.75
20-30	781.92
30-40	573.27
40-50	382.87
50-60	263.11
60-70	150.93
70-80	67.56
80-90	12.57
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

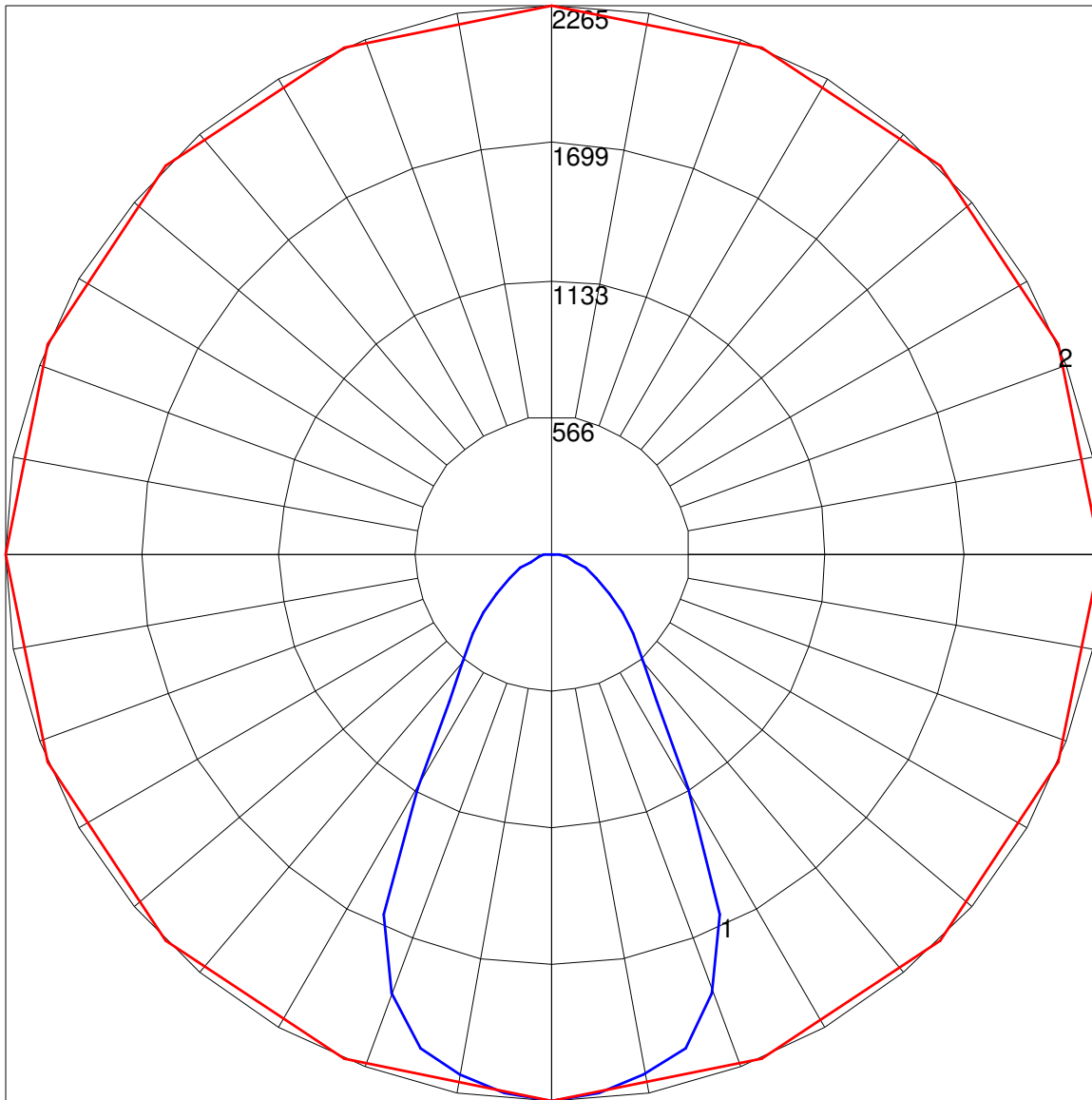
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	177	177	177	177	173	173	173	173	165	165	165	158	158	158	151	151	151	148
1	166	161	156	152	162	157	153	149	151	148	145	146	143	140	140	138	136	133
2	155	146	138	132	151	143	136	130	138	132	127	133	129	124	129	125	122	119
3	145	133	123	116	141	130	122	115	126	119	113	122	116	111	119	114	109	107
4	135	121	111	103	132	119	110	103	116	108	101	113	106	100	110	104	99	96
5	127	111	101	93	124	110	100	92	107	98	92	104	97	91	102	95	90	87
6	119	103	92	84	116	102	91	84	99	90	83	97	89	83	95	88	82	80
7	112	95	85	77	110	94	84	77	92	83	76	90	82	76	88	81	76	73
8	106	89	78	71	103	88	78	71	86	77	70	84	76	70	83	75	70	67
9	100	83	73	66	98	82	72	66	81	72	65	79	71	65	78	70	65	62
10	94	78	68	61	93	77	67	61	76	67	61	74	66	61	73	66	60	58

POLAR GRAPH



Maximum Candela = 2265.202 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.)