IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L15-835-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
[ISSUEDATE] 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-L15-835-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	1496
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	17.4
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	31696	34396	31396
55	23667	24283	23544
65	16897	16395	16562
75	11473	11200	11473
85	4056	3245	4867

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1112.522	1112.522	1112.522	1112.522	1112.522
5	1102.316	1103.045	1102.316	1103.045	1103.045
10	1076.070	1076.799	1080.444	1087.735	1089.193
15	1039.618	1047.637	1054.928	1061.489	1061.489
20	952.862	984.210	1003.895	1001.708	982.023
25	807.053	856.628	913.493	861.731	809.240
30	549.700	635.727	758.207	632.082	533.661
35	365.251	406.078	555.532	404.620	357.961
40	285.057	301.096	352.129	296.721	277.037
45	231.107	240.585	250.791	236.211	228.920
50	182.990	195.384	193.197	188.094	182.261
55	139.977	143.622	143.622	142.893	139.248
60	102.795	104.982	104.253	104.253	102.795
65	73.634	74.363	71.446	73.634	72.175
70	48.846	51.762	48.117	49.575	48.846
75	30.620	30.620	29.891	29.891	30.620
80	16.039	15.310	15.310	16.039	16.768
85	3.645	3.645	2.916	2.916	4.374
90	0.000	0.000	0.000	0.729	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	399.68	N.A.	26.70
0-30	783.71	N.A.	52.40
0-40	1065.26	N.A.	71.20
0-60	1382.53	N.A.	92.40
0-80	1489.84	N.A.	99.60
0-90	1496.01	N.A.	100.00
10-90	1391.37	N.A.	93.00
20-40	665.58	N.A.	44.50
20-50	853.62	N.A.	57.10
40-70	391.39	N.A.	26.20
60-80	107.31	N.A.	7.20
70-80	33.18	N.A.	2.20
80-90	6.17	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	1496.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.64
10-20	295.05
20-30	384.03
30-40	281.55
40-50	188.04
50-60	129.22
60-70	74.13
70-80	33.18
80-90	6.17
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	87	87	87	87	85	85	85	85	81	81	81	78	78	78	74	74	74	73
1	81	79	77	75	80	77	75	73	74	73	71	72	70	69	69	68	67	65
2	76	72	68	65	74	70	67	64	68	65	62	66	63	61	63	61	60	58
3	71	65	61	57	69	64	60	56	62	58	55	60	57	55	58	56	54	52
4	66	60	55	51	65	59	54	50	57	53	50	55	52	49	54	51	49	47
5	62	55	50	46	61	54	49	45	53	48	45	51	48	45	50	47	44	43
6	58	51	45	41	57	50	45	41	49	44	41	48	44	41	47	43	40	39
7	55	47	42	38	54	46	41	38	45	41	38	44	40	37	43	40	37	36
8	52	44	38	35	51	43	38	35	42	38	35	41	37	34	41	37	34	33
9	49	41	36	32	48	40	35	32	40	35	32	39	35	32	38	35	32	31
10	46	38	33	30	46	38	33	30	37	33	30	37	33	30	36	32	30	29

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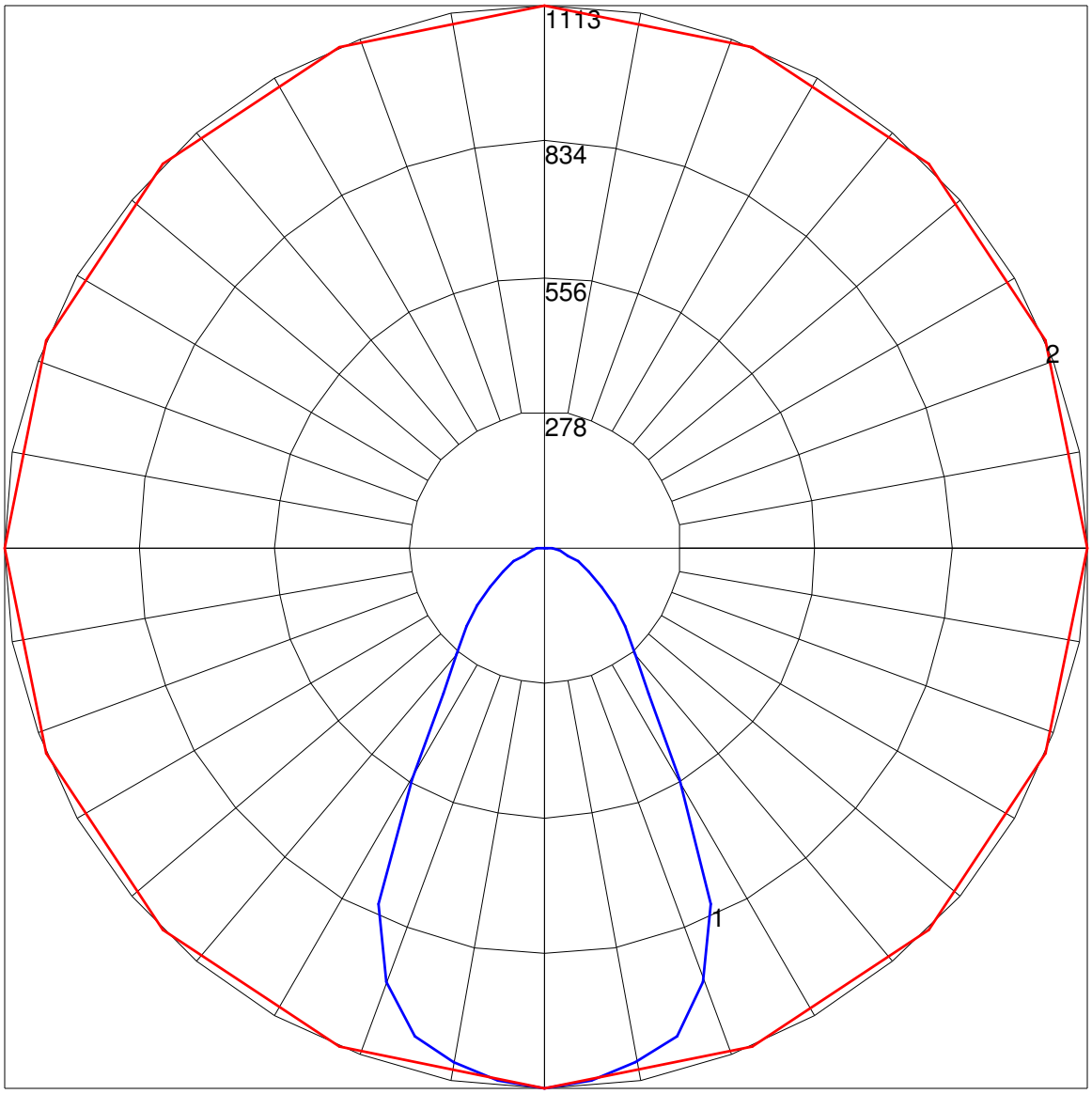
POLAR GRAPH



Maximum Candela = 1112.522 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.)