



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L15-830-DIM-UNV-LM-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20318.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 20-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] ACRYLIC MED TIR OPTIC & 4"CAST WHITE FLUSH w/SOLITE LENS

[LUMCAT] 4DS-L15-830-DIM-UNV-LM-OF-WH

[_SEARCH_SOURCE TYPE] 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	1599
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	17.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.54
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	7495	8176	7008
55	4800	5040	4800
65	4071	3909	4071
75	2659	2659	2393
85	1579	790	1579

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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	4291.679	4291.679	4291.679	4291.679	4291.679
5	4135.540	4120.636	4109.281	4087.989	4090.118
10	3550.021	3547.182	3520.213	3488.275	3456.338
15	2478.343	2546.476	2493.247	2462.729	2432.921
20	1378.277	1400.278	1425.118	1362.663	1298.078
25	672.815	697.655	700.494	649.394	607.521
30	317.245	329.310	332.859	298.792	283.178
35	151.880	163.945	174.591	157.558	134.847
40	83.037	88.715	94.393	84.457	75.230
45	54.648	56.068	59.617	54.648	51.100
50	39.035	39.744	40.454	39.035	36.905
55	28.389	29.808	29.808	29.099	28.389
60	23.421	23.421	22.711	22.001	22.001
65	17.743	17.743	17.033	17.033	17.743
70	11.356	11.356	11.356	11.356	10.646
75	7.097	7.097	7.097	7.097	6.387
80	4.258	4.258	3.549	4.258	3.549
85	1.419	2.129	0.710	1.419	1.419
90	0.000	0.000	0.000	0.710	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1048.29	N.A.	65.60
0-30	1388.59	N.A.	86.80
0-40	1499.7	N.A.	93.80
0-60	1572.22	N.A.	98.30
0-80	1596.95	N.A.	99.90
0-90	1598.85	N.A.	100.00
10-90	1225.77	N.A.	76.70
20-40	451.41	N.A.	28.20
20-50	497.01	N.A.	31.10
40-70	89.53	N.A.	5.60
60-80	24.72	N.A.	1.50
70-80	7.72	N.A.	0.50
80-90	1.91	N.A.	0.10
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	1598.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	373.09
10-20	675.20
20-30	340.31
30-40	111.10
40-50	45.60
50-60	26.93
60-70	17.00
70-80	7.72
80-90	1.91
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

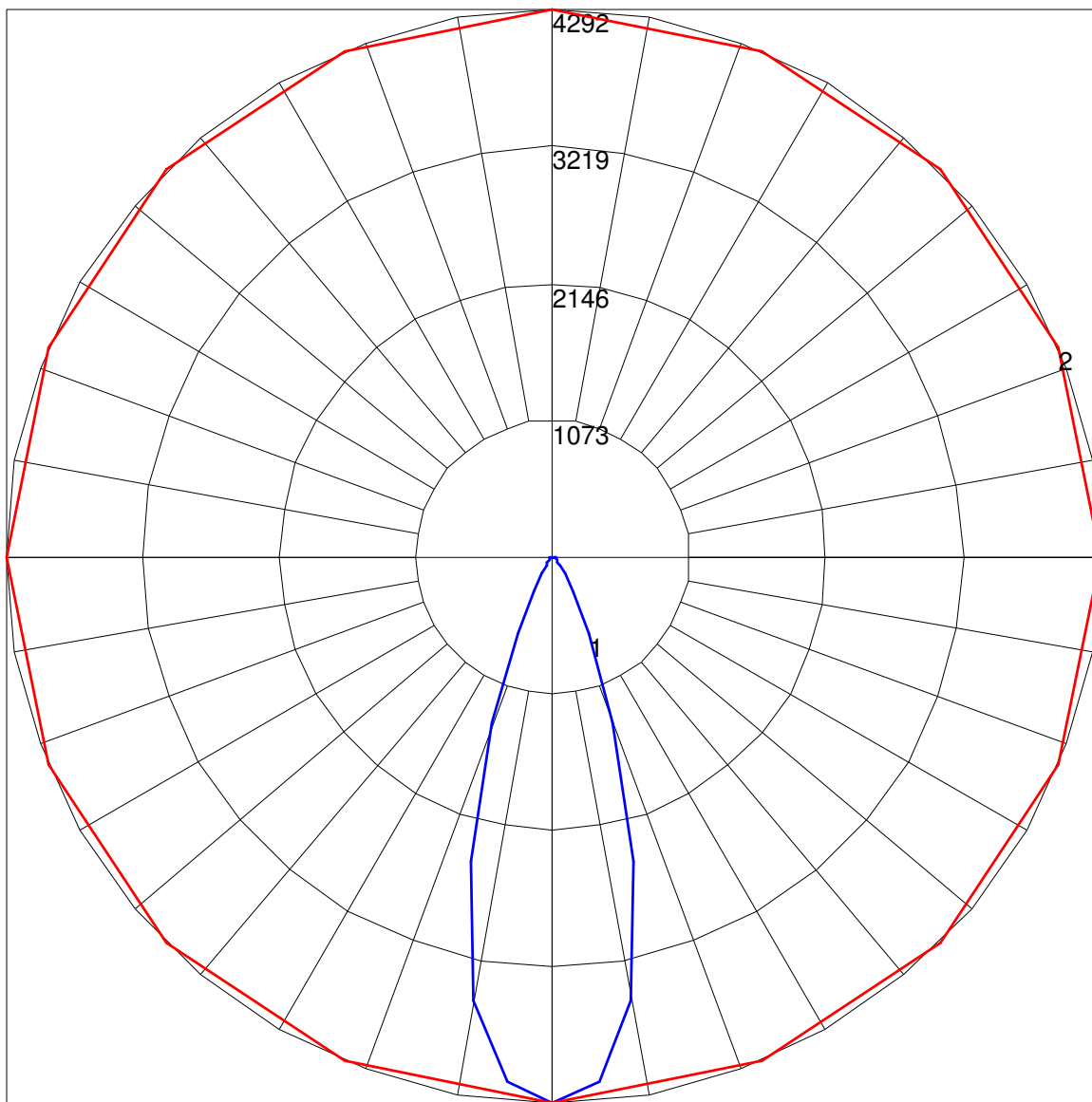
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	84	84	84	84	83	83	83	83	79	79	79	75	75	75	72	72	72	71
1	81	79	78	76	79	78	76	75	75	74	73	72	71	71	70	69	69	67
2	78	75	72	70	76	74	71	69	71	69	68	69	68	66	67	66	65	64
3	75	71	68	65	73	70	67	65	68	66	64	66	64	63	65	63	62	61
4	72	67	64	61	71	66	63	61	65	62	60	64	61	60	62	60	59	58
5	69	64	61	58	68	63	60	58	62	59	57	61	59	57	60	58	56	55
6	66	61	58	55	65	61	57	55	60	57	55	59	56	54	58	56	54	53
7	64	59	55	53	63	58	55	52	57	54	52	57	54	52	56	53	52	51
8	62	56	53	50	61	56	53	50	55	52	50	55	52	50	54	51	50	49
9	60	54	51	48	59	54	51	48	53	50	48	53	50	48	52	50	48	47
10	58	52	49	47	57	52	49	46	51	48	46	51	48	46	50	48	46	45

POLAR GRAPH



Maximum Candela = 4291.679 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.)