



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L11-8TW-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-L11-8TW-DIM-UNV-LW-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	1045
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	14.6
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	22141	24026	21931
55	16532	16962	16446
65	11803	11452	11569
75	8014	7824	8014
85	2833	2267	3400

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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	777.130	777.130	777.130	777.130	777.130
5	770.000	770.509	770.000	770.509	770.509
10	751.667	752.176	754.722	759.815	760.833
15	726.204	731.806	736.898	741.481	741.481
20	665.602	687.500	701.250	699.722	685.972
25	563.750	598.380	638.102	601.944	565.278
30	383.981	444.074	529.630	441.528	372.778
35	255.139	283.657	388.056	282.639	250.046
40	199.120	210.324	245.972	207.269	193.519
45	161.435	168.056	175.185	165.000	159.907
50	127.824	136.481	134.954	131.389	127.315
55	97.778	100.324	100.324	99.815	97.269
60	71.806	73.333	72.824	72.824	71.806
65	51.435	51.944	49.907	51.435	50.417
70	34.120	36.157	33.611	34.630	34.120
75	21.389	21.389	20.880	20.880	21.389
80	11.204	10.694	10.694	11.204	11.713
85	2.546	2.546	2.037	2.037	3.056
90	0.000	0.000	0.000	0.509	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	279.19	N.A.	26.70
0-30	547.45	N.A.	52.40
0-40	744.12	N.A.	71.20
0-60	965.74	N.A.	92.40
0-80	1040.69	N.A.	99.60
0-90	1045.01	N.A.	100.00
10-90	971.91	N.A.	93.00
20-40	464.93	N.A.	44.50
20-50	596.28	N.A.	57.10
40-70	273.40	N.A.	26.20
60-80	74.96	N.A.	7.20
70-80	23.18	N.A.	2.20
80-90	4.31	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	1045.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.09
10-20	206.10
20-30	268.26
30-40	196.67
40-50	131.35
50-60	90.27
60-70	51.78
70-80	23.18
80-90	4.31
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

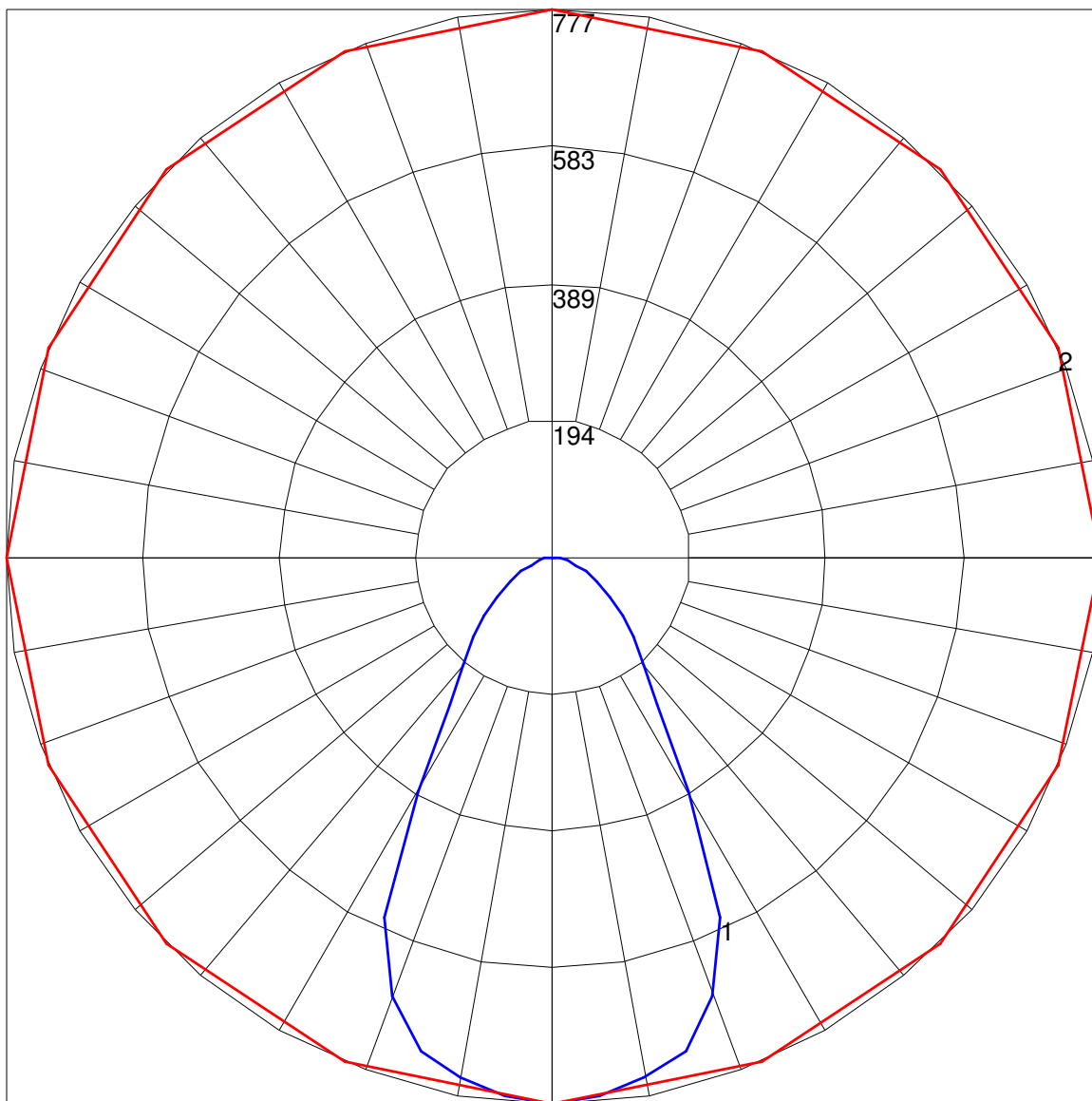
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	68	68	68	68	67	67	67	67	64	64	64	61	61	61	59	59	59	57
1	64	62	60	59	63	61	59	58	58	57	56	56	55	54	54	53	53	52
2	60	56	53	51	59	55	53	50	53	51	49	52	50	48	50	48	47	46
3	56	51	48	45	55	50	47	44	49	46	44	47	45	43	46	44	42	41
4	52	47	43	40	51	46	43	40	45	42	39	44	41	39	43	40	38	37
5	49	43	39	36	48	43	39	36	41	38	35	40	37	35	39	37	35	34
6	46	40	36	33	45	39	35	33	38	35	32	37	34	32	37	34	32	31
7	43	37	33	30	42	36	33	30	36	32	30	35	32	29	34	31	29	28
8	41	34	30	27	40	34	30	27	33	30	27	33	29	27	32	29	27	26
9	39	32	28	25	38	32	28	25	31	28	25	31	27	25	30	27	25	24
10	37	30	26	24	36	30	26	24	29	26	23	29	26	23	28	25	23	22

POLAR GRAPH



Maximum Candela = 777.13 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.)