



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L7-9DW-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-L7-9DW-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	681
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
Total Luminaire Watts	14
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	14428	15657	14292
55	10773	11054	10717
65	7692	7463	7539
75	5223	5098	5223
85	1846	1477	2215

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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	506.436	506.436	506.436	506.436	506.436
5	501.789	502.121	501.789	502.121	502.121
10	489.842	490.174	491.833	495.152	495.816
15	473.248	476.899	480.218	483.205	483.205
20	433.756	448.026	456.987	455.991	447.031
25	367.382	389.949	415.835	392.272	368.377
30	250.231	289.392	345.146	287.732	242.930
35	166.268	184.852	252.886	184.189	162.949
40	129.762	137.063	160.294	135.072	126.111
45	105.203	109.518	114.164	107.526	104.208
50	83.300	88.942	87.946	85.623	82.968
55	63.719	65.379	65.379	65.047	63.387
60	46.794	47.789	47.458	47.458	46.794
65	33.519	33.851	32.523	33.519	32.855
70	22.235	23.563	21.904	22.567	22.235
75	13.939	13.939	13.607	13.607	13.939
80	7.301	6.969	6.969	7.301	7.633
85	1.659	1.659	1.327	1.327	1.991
90	0.000	0.000	0.000	0.332	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	181.94	N.A.	26.70
0-30	356.76	N.A.	52.40
0-40	484.92	N.A.	71.20
0-60	629.35	N.A.	92.40
0-80	678.19	N.A.	99.60
0-90	681.00	N.A.	100.00
10-90	633.37	N.A.	93.00
20-40	302.98	N.A.	44.50
20-50	388.58	N.A.	57.10
40-70	178.17	N.A.	26.20
60-80	48.85	N.A.	7.20
70-80	15.10	N.A.	2.20
80-90	2.81	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	681.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.63
10-20	134.31
20-30	174.82
30-40	128.17
40-50	85.60
50-60	58.82
60-70	33.74
70-80	15.10
80-90	2.81
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

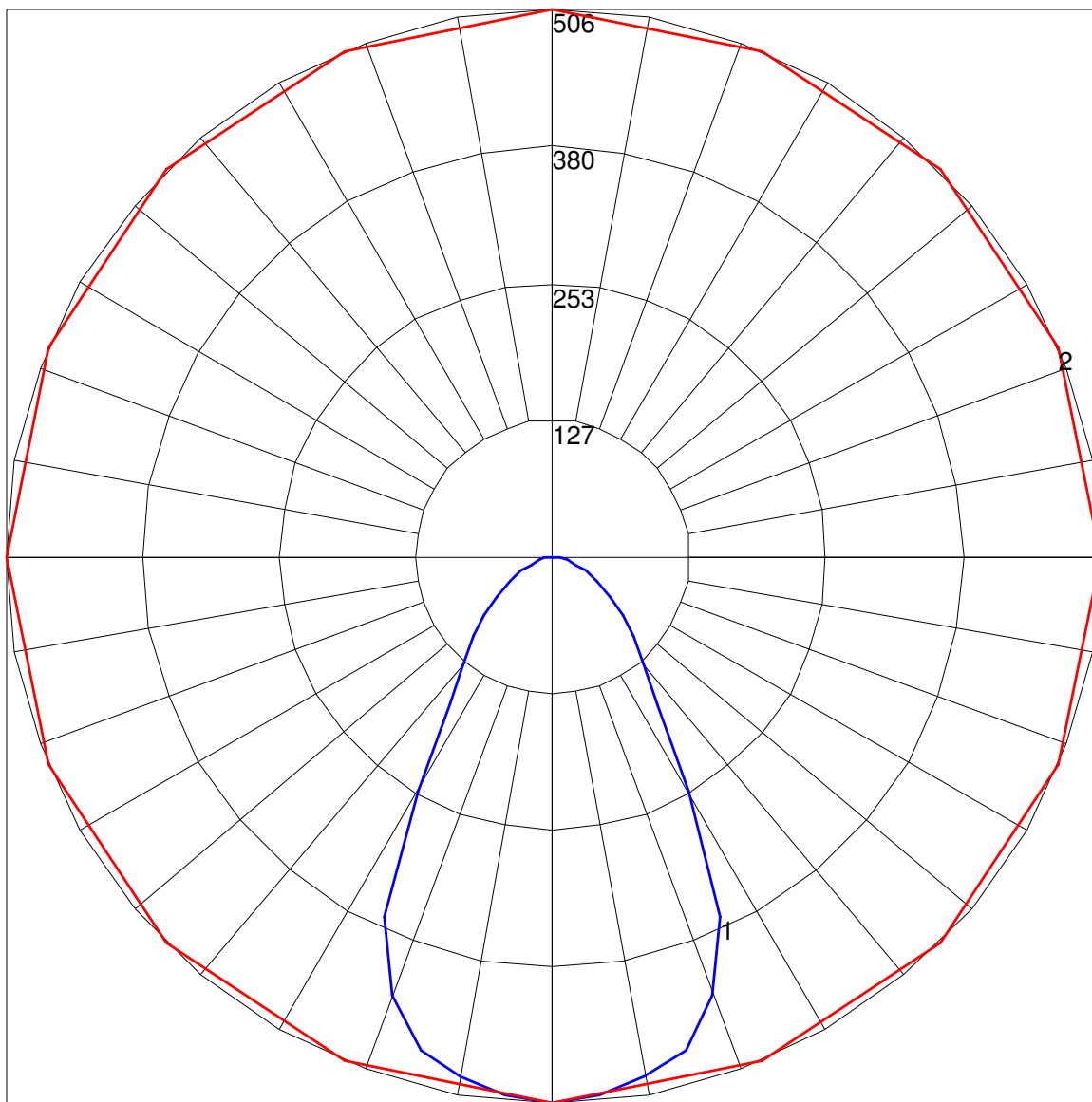
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	41	41	41	41	40	40	40	40	39	39	39	37	37	37	36	36	36	35
1	39	38	37	36	38	37	36	35	35	35	34	34	33	33	33	32	32	31
2	36	34	32	31	35	34	32	31	32	31	30	31	30	29	30	29	29	28
3	34	31	29	27	33	31	29	27	30	28	26	29	27	26	28	27	26	25
4	32	28	26	24	31	28	26	24	27	25	24	26	25	23	26	24	23	23
5	30	26	24	22	29	26	23	22	25	23	21	24	23	21	24	22	21	20
6	28	24	22	20	27	24	21	20	23	21	20	23	21	19	22	21	19	19
7	26	22	20	18	26	22	20	18	22	19	18	21	19	18	21	19	18	17
8	25	21	18	17	24	21	18	17	20	18	17	20	18	16	19	18	16	16
9	23	19	17	15	23	19	17	15	19	17	15	19	17	15	18	16	15	15
10	22	18	16	14	22	18	16	14	18	16	14	17	16	14	17	15	14	14

POLAR GRAPH



Maximum Candela = 506.436 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.)