



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L16-9TC-DIM-UNV-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] 4"SHORT HEATSINK 4"SQ CAST HOUSING DOWNLIGHT
 [MORE] WHITE MIXING CHAMBER & 4"CAST WHITE FLUSH w/SOLITE LENS
 [LUMCAT] 4DS-L16-9TC-DIM-UNV-LW-OF-WH
 [LAMPCAT] TUNABLE COB LED
 [_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	1691
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	40.1
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	35827	38879	35488
55	26752	27448	26612
65	19099	18532	18721
75	12969	12660	12969
85	4584	3667	5501

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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	1257.537	1257.537	1257.537	1257.537	1257.537
5	1246.000	1246.824	1246.000	1246.824	1246.824
10	1216.333	1217.157	1221.278	1229.519	1231.167
15	1175.130	1184.194	1192.435	1199.852	1199.852
20	1077.065	1112.500	1134.750	1132.278	1110.028
25	912.250	968.287	1032.565	974.056	914.722
30	621.352	718.593	857.037	714.472	603.222
35	412.861	459.009	627.944	457.361	404.620
40	322.213	340.343	398.028	335.398	313.148
45	261.231	271.944	283.481	267.000	258.759
50	206.843	220.852	218.380	212.611	206.019
55	158.222	162.343	162.343	161.519	157.398
60	116.194	118.667	117.843	117.843	116.194
65	83.231	84.056	80.759	83.231	81.583
70	55.213	58.509	54.389	56.037	55.213
75	34.611	34.611	33.787	33.787	34.611
80	18.130	17.306	17.306	18.130	18.954
85	4.120	4.120	3.296	3.296	4.944
90	0.000	0.000	0.000	0.824	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	451.78	N.A.	26.70
0-30	885.87	N.A.	52.40
0-40	1204.12	N.A.	71.20
0-60	1562.74	N.A.	92.40
0-80	1684.03	N.A.	99.60
0-90	1691.01	N.A.	100.00
10-90	1572.74	N.A.	93.00
20-40	752.34	N.A.	44.50
20-50	964.89	N.A.	57.10
40-70	442.41	N.A.	26.20
60-80	121.29	N.A.	7.20
70-80	37.51	N.A.	2.20
80-90	6.98	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	1691.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.27
10-20	333.51
20-30	434.09
30-40	318.25
40-50	212.55
50-60	146.07
60-70	83.79
70-80	37.51
80-90	6.98
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

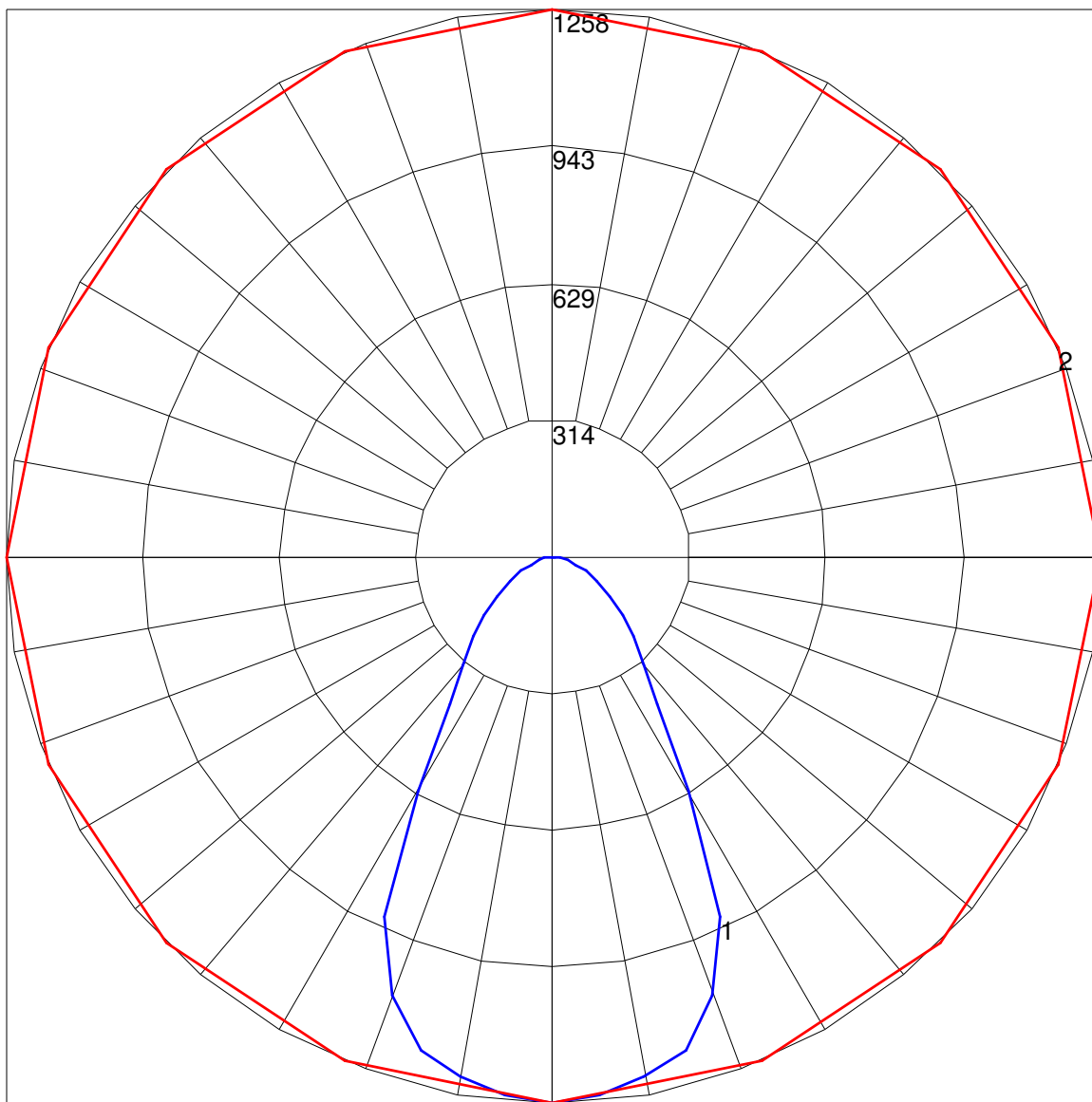
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

POLAR GRAPH



Maximum Candela = 1257.537 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.)