



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L21-9DW-DIM-UNV-OWW-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20314.0

[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 & SEMISPEC WALLWASH TRIM w/FROST FIL

[MORE] ADVANCE #XI025C070V054DSM1 @ 625mA

[LUMCAT] 4DS-L2Q-9DW-DIM-UNV-OWW-OF-CS

[LAMPCAT] BXRE-352000

[_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	1677
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.88
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	59339	34897	17514
55	44150	13535	3061
65	36302	3936	0
75	19997	0	0
85	0	0	0

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	1775.439	1775.439	1775.439	1775.439	1775.439	1775.439	1775.439	1775.439	1775.439
5	1773.533	1760.191	1764.956	1764.956	1765.909	1764.003	1767.815	1767.815	1766.862
10	1676.327	1672.515	1690.622	1692.528	1690.622	1694.434	1716.353	1724.930	1722.071
15	1512.411	1513.364	1527.659	1539.095	1520.988	1557.202	1595.322	1602.946	1584.839
20	1288.456	1317.999	1318.952	1325.623	1280.832	1333.247	1402.816	1375.179	1317.999
25	1033.052	1067.360	1080.702	1011.133	989.214	1026.381	1127.399	1070.219	998.744
30	782.413	790.037	801.473	679.489	646.134	737.622	814.815	749.058	698.549
35	590.860	584.189	552.740	438.380	389.777	485.077	536.539	507.949	457.440
40	509.855	474.594	361.187	268.746	229.673	278.276	322.114	329.738	317.349
45	432.662	397.401	254.451	156.292	127.702	145.809	183.929	174.399	170.587
50	339.268	304.960	165.822	80.052	71.475	70.522	87.676	80.052	79.099
55	261.122	227.767	80.052	30.496	18.107	24.778	29.543	25.731	20.013
60	197.271	171.540	38.120	3.812	0.000	0.953	7.624	2.859	2.859
65	158.198	125.796	17.154	0.000	0.000	0.000	0.000	0.000	0.000
70	112.454	78.146	4.765	0.000	0.000	0.000	0.000	0.000	0.000
75	53.368	35.261	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.953	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	596.51	N.A.	35.60
0-30	1073.17	N.A.	64.00
0-40	1396.49	N.A.	83.30
0-60	1640.61	N.A.	97.80
0-80	1677.32	N.A.	100.00
0-90	1677.34	N.A.	100.00
10-90	1511.11	N.A.	90.10
20-40	799.99	N.A.	47.70
20-50	973.28	N.A.	58.00
40-70	272.17	N.A.	16.20
60-80	36.71	N.A.	2.20
70-80	8.66	N.A.	0.50
80-90	0.02	N.A.	0.00
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	1677.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.23
10-20	430.28
20-30	476.66
30-40	323.33
40-50	173.30
50-60	70.82
60-70	28.05
70-80	8.66
80-90	0.02
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

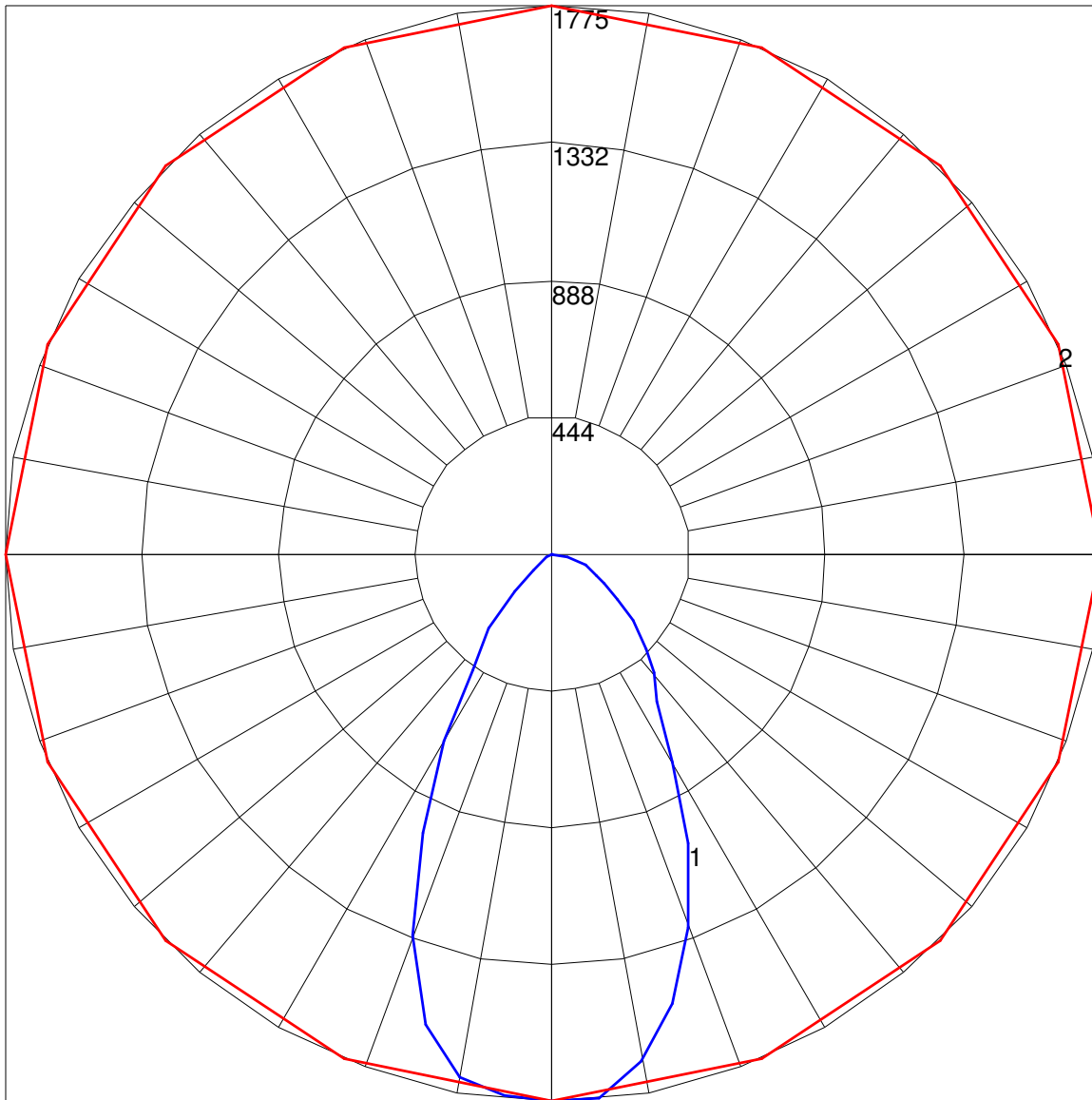
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	111	111	111	111	106	106	106	101	101	101	97	97	97	95
1	108	105	102	100	105	103	101	98	99	97	95	95	94	93	92	91	90	88
2	102	97	93	89	100	95	91	88	92	89	86	89	87	84	86	84	83	81
3	96	89	84	80	94	88	83	80	86	82	78	83	80	77	81	78	76	74
4	91	83	77	73	89	82	77	73	80	75	72	78	74	71	76	73	70	68
5	86	77	71	67	84	76	71	67	75	70	66	73	69	65	71	68	65	63
6	81	72	66	62	80	71	66	61	70	65	61	68	64	61	67	63	60	59
7	77	67	61	57	76	67	61	57	66	60	57	64	60	56	63	59	56	55
8	73	63	57	53	72	63	57	53	62	56	53	61	56	53	60	55	52	51
9	69	60	54	50	68	59	53	50	58	53	49	57	53	49	56	52	49	48
10	66	56	50	47	65	56	50	46	55	50	46	54	50	46	54	49	46	45

POLAR GRAPH



Maximum Candela = 1775.439 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.)