



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L21-9DW-DIM-UNV-LN-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20319.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 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 NARROW TIR OPTIC & 4"CAST WHITE FLUSH w/SOLITE LE

[MORE] ADVANCE # XI025C070V054DSM1 @ 625mA

[LUMCAT] 4DS-L21-9DW-DIM-UNV-LN-OF-WH

[LAMPCAT] BXRE-35E2000

[_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	2180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.44
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	7711	8104	6927
55	5156	5156	4834
65	3936	3718	3718
75	3214	2857	2857
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>
0	9117.351	9117.351	9117.351	9117.351	9117.351
5	8263.463	8196.753	8125.278	8179.599	8188.176
10	6046.785	6023.913	5842.843	5799.958	5708.470
15	3428.894	3409.834	3196.362	3141.088	3063.895
20	1636.301	1640.113	1491.445	1402.816	1394.239
25	719.515	694.737	630.886	592.766	556.552
30	311.631	292.571	275.417	255.404	233.485
35	150.574	144.856	141.997	128.655	116.266
40	83.864	82.911	86.723	77.193	70.522
45	56.227	55.274	59.086	53.368	50.509
50	40.026	40.026	42.885	40.026	37.167
55	30.496	29.543	30.496	29.543	28.590
60	23.825	22.872	23.825	23.825	22.872
65	17.154	16.201	16.201	16.201	16.201
70	13.342	12.389	11.436	12.389	11.436
75	8.577	5.718	7.624	6.671	7.624
80	2.859	1.906	2.859	3.812	2.859
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1644.27	N.A.	75.40
0-30	1985.48	N.A.	91.10
0-40	2082.45	N.A.	95.50
0-60	2154.57	N.A.	98.80
0-80	2179.11	N.A.	100.00
0-90	2179.89	N.A.	100.00
10-90	1469.83	N.A.	67.40
20-40	438.17	N.A.	20.10
20-50	482.74	N.A.	22.10
40-70	89.01	N.A.	4.10
60-80	24.54	N.A.	1.10
70-80	7.66	N.A.	0.40
80-90	0.78	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	2179.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	710.06
10-20	934.21
20-30	341.21
30-40	96.97
40-50	44.56
50-60	27.56
60-70	16.88
70-80	7.66
80-90	0.78
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

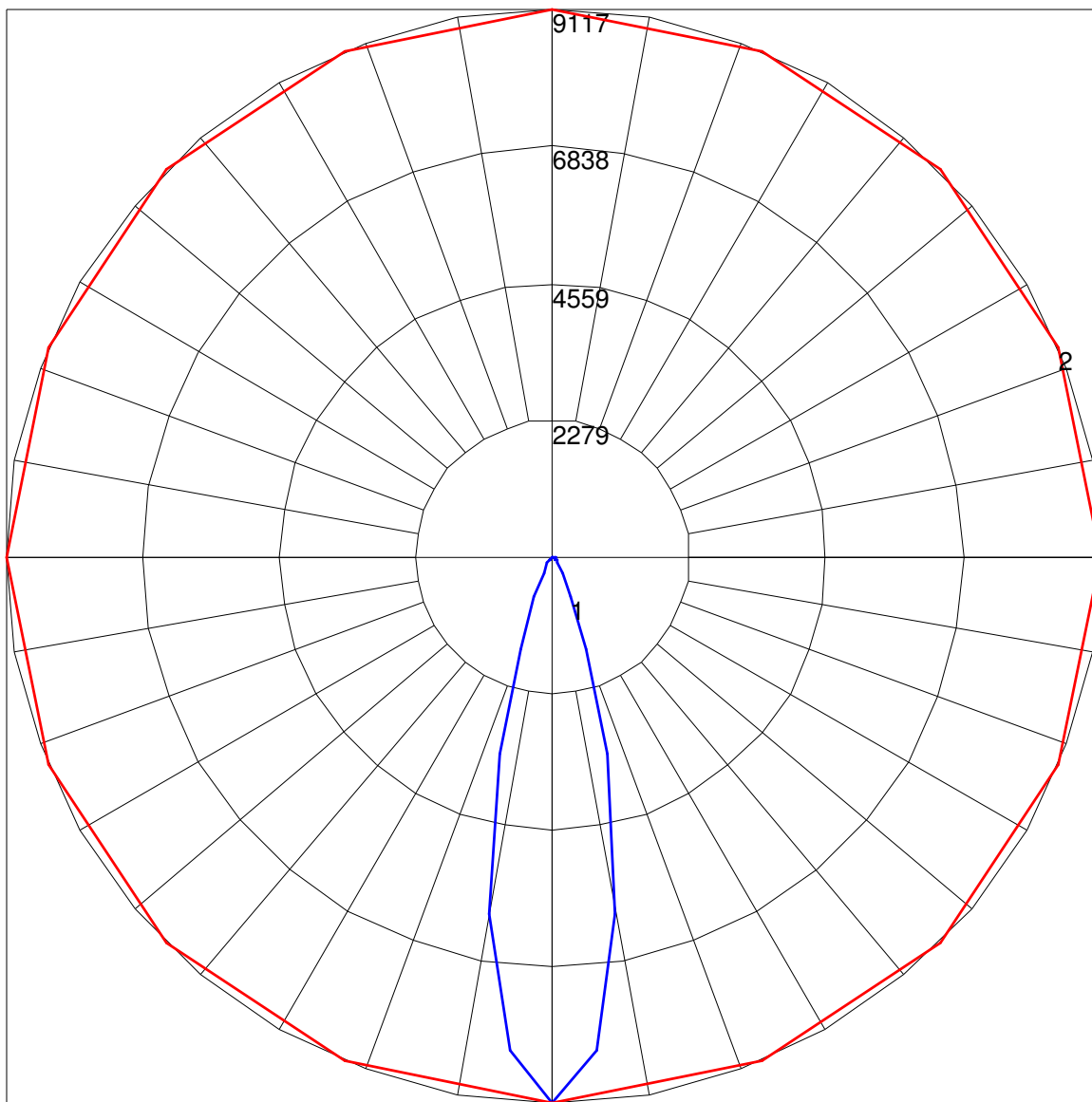
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	105	103	107	105	103	102	101	100	99	98	97	96	95	94	93	91
2	105	102	99	96	103	100	97	95	97	95	93	94	93	91	92	90	89	88
3	102	97	93	90	100	96	92	90	93	90	88	91	89	87	89	87	86	84
4	98	93	89	86	97	92	88	85	90	87	84	88	85	83	86	84	82	81
5	95	89	85	82	94	88	84	81	87	83	81	85	82	80	84	81	79	78
6	92	86	81	78	91	85	81	78	84	80	78	83	79	77	81	79	77	76
7	89	83	78	75	88	82	78	75	81	78	75	80	77	75	79	76	74	73
8	87	80	76	73	86	79	75	73	79	75	72	78	75	72	77	74	72	71
9	84	77	73	71	83	77	73	70	76	73	70	76	72	70	75	72	70	69
10	82	75	71	68	81	75	71	68	74	71	68	73	70	68	73	70	68	67

POLAR GRAPH



Maximum Candela = 9117.351 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.)