



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L20-8TW-DIM-UNV-LM-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20318.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 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 MED TIR OPTIC & 4"CAST WHITE FLUSH w/SOLITE LENS

[MORE] ADVANCE # XI025C070V054DSM1 @ 625mA

[LUMCAT] 4DS-L20-8TW-DIM-UNV-LM-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	1973
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.54
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	9251	10092	8650
55	5924	6221	5924
65	5025	4824	5025
75	3282	3282	2954
85	1949	975	1949

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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	5297.172	5297.172	5297.172	5297.172	5297.172
5	5104.452	5086.056	5072.040	5045.760	5048.388
10	4381.752	4378.248	4344.960	4305.540	4266.120
15	3058.992	3143.088	3077.388	3039.720	3002.928
20	1701.192	1728.348	1759.008	1681.920	1602.204
25	830.448	861.108	864.612	801.540	749.856
30	391.572	406.464	410.844	368.796	349.524
35	187.464	202.356	215.496	194.472	166.440
40	102.492	109.500	116.508	104.244	92.856
45	67.452	69.204	73.584	67.452	63.072
50	48.180	49.056	49.932	48.180	45.552
55	35.040	36.792	36.792	35.916	35.040
60	28.908	28.908	28.032	27.156	27.156
65	21.900	21.900	21.024	21.024	21.900
70	14.016	14.016	14.016	14.016	13.140
75	8.760	8.760	8.760	8.760	7.884
80	5.256	5.256	4.380	5.256	4.380
85	1.752	2.628	0.876	1.752	1.752
90	0.000	0.000	0.000	0.876	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1293.89	N.A.	65.60
0-30	1713.93	N.A.	86.80
0-40	1851.06	N.A.	93.80
0-60	1940.58	N.A.	98.30
0-80	1971.09	N.A.	99.90
0-90	1973.45	N.A.	100.00
10-90	1512.95	N.A.	76.70
20-40	557.17	N.A.	28.20
20-50	613.45	N.A.	31.10
40-70	110.50	N.A.	5.60
60-80	30.52	N.A.	1.50
70-80	9.53	N.A.	0.50
80-90	2.35	N.A.	0.10
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	1973.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	460.50
10-20	833.39
20-30	420.04
30-40	137.13
40-50	56.28
50-60	33.24
60-70	20.99
70-80	9.53
80-90	2.35
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

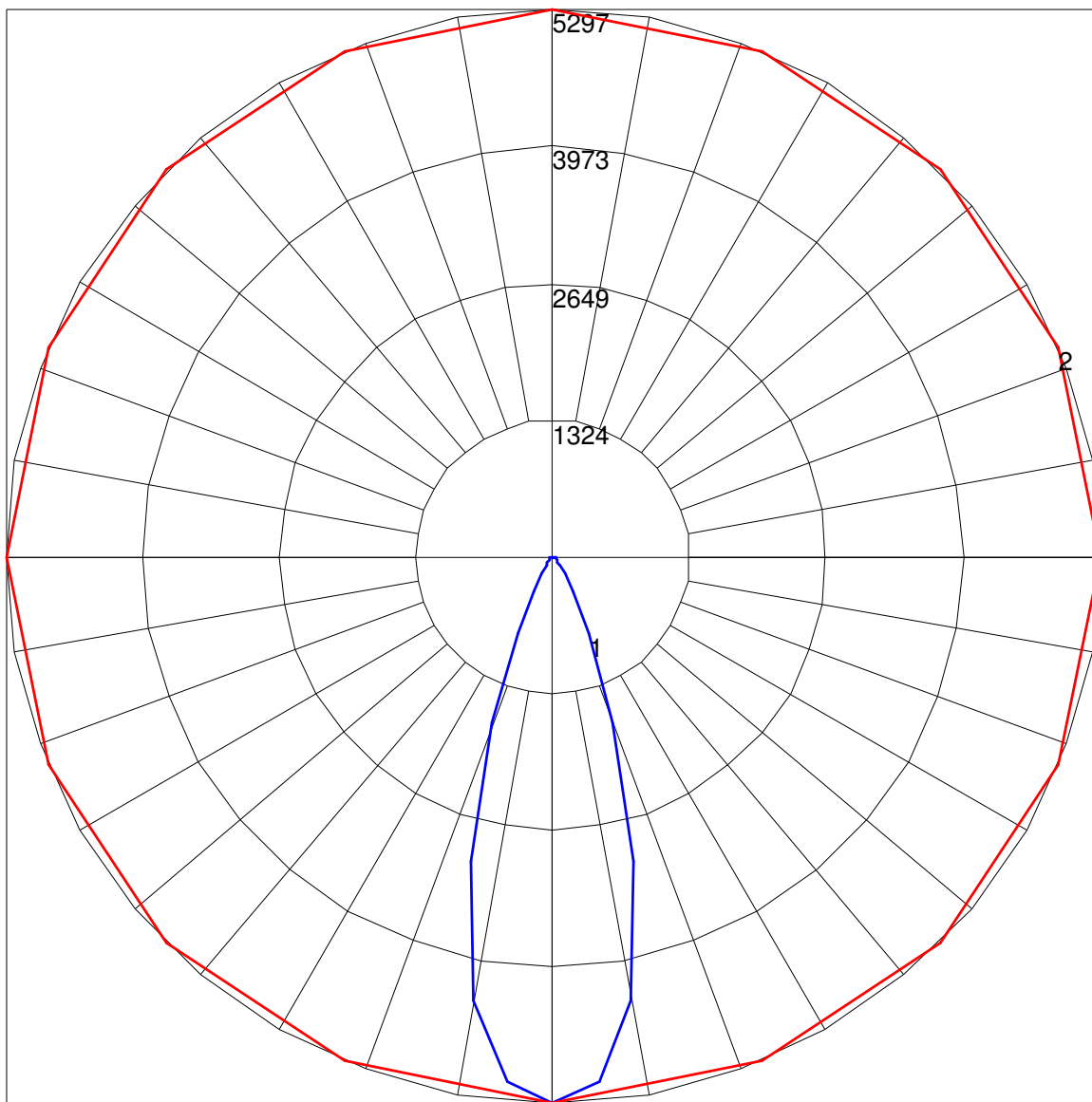
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85
4	101	94	90	86	99	93	89	86	91	87	85	89	86	84	87	85	83	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78
6	93	86	81	77	92	85	80	77	84	80	77	82	79	76	81	78	76	74
7	90	82	77	74	89	82	77	74	80	76	73	79	76	73	78	75	73	71
8	87	79	74	71	86	78	74	71	77	73	70	77	73	70	76	72	70	69
9	84	76	71	68	83	75	71	68	75	70	68	74	70	67	73	70	67	66
10	81	73	68	65	80	73	68	65	72	68	65	71	68	65	71	67	65	64

POLAR GRAPH



Maximum Candela = 5297.172 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.)