



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20323.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 23-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 DIST TIR OPTIC & 4"CAST WHITE REGRESS w/SOLITE

[MORE] LENS ADVANCE #XI025C070V054DSM1 @ 625MA

[LUMCAT] 4DS-L10-8TW-DIM-UNV-RM-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	1945
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
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)	0.56
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	7329	9491	7569
55	5036	5184	4740
65	3417	3216	3417
75	1313	985	985
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	5198.184	5198.184	5198.184	5198.184	5198.184
5	5013.348	4973.052	4954.656	4935.384	4926.624
10	4252.104	4267.872	4231.956	4227.576	4182.900
15	3054.612	3017.820	3037.968	3049.356	2976.648
20	1707.324	1708.200	1766.892	1808.940	1712.580
25	826.068	833.952	883.008	879.504	843.588
30	370.548	391.572	430.992	431.868	407.340
35	164.688	180.456	223.380	213.744	183.084
40	85.848	91.980	121.764	109.500	96.360
45	53.436	56.064	69.204	62.196	55.188
50	39.420	39.420	42.924	41.172	38.544
55	29.784	30.660	30.660	28.908	28.032
60	21.024	21.024	19.272	20.148	19.272
65	14.892	14.892	14.016	14.892	14.892
70	7.008	7.008	6.132	7.008	6.132
75	3.504	3.504	2.628	5.256	2.628
80	1.752	1.752	1.752	2.628	1.752
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	1275.2	N.A.	65.60
0-30	1709.11	N.A.	87.90
0-40	1849.04	N.A.	95.10
0-60	1926.69	N.A.	99.00
0-80	1944.74	N.A.	100.00
0-90	1945.28	N.A.	100.00
10-90	1494.94	N.A.	76.80
20-40	573.84	N.A.	29.50
20-50	624.63	N.A.	32.10
40-70	91.52	N.A.	4.70
60-80	18.06	N.A.	0.90
70-80	4.18	N.A.	0.20
80-90	0.54	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	1945.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	450.33
10-20	824.87
20-30	433.91
30-40	139.93
40-50	50.79
50-60	26.85
60-70	13.87
70-80	4.18
80-90	0.54
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

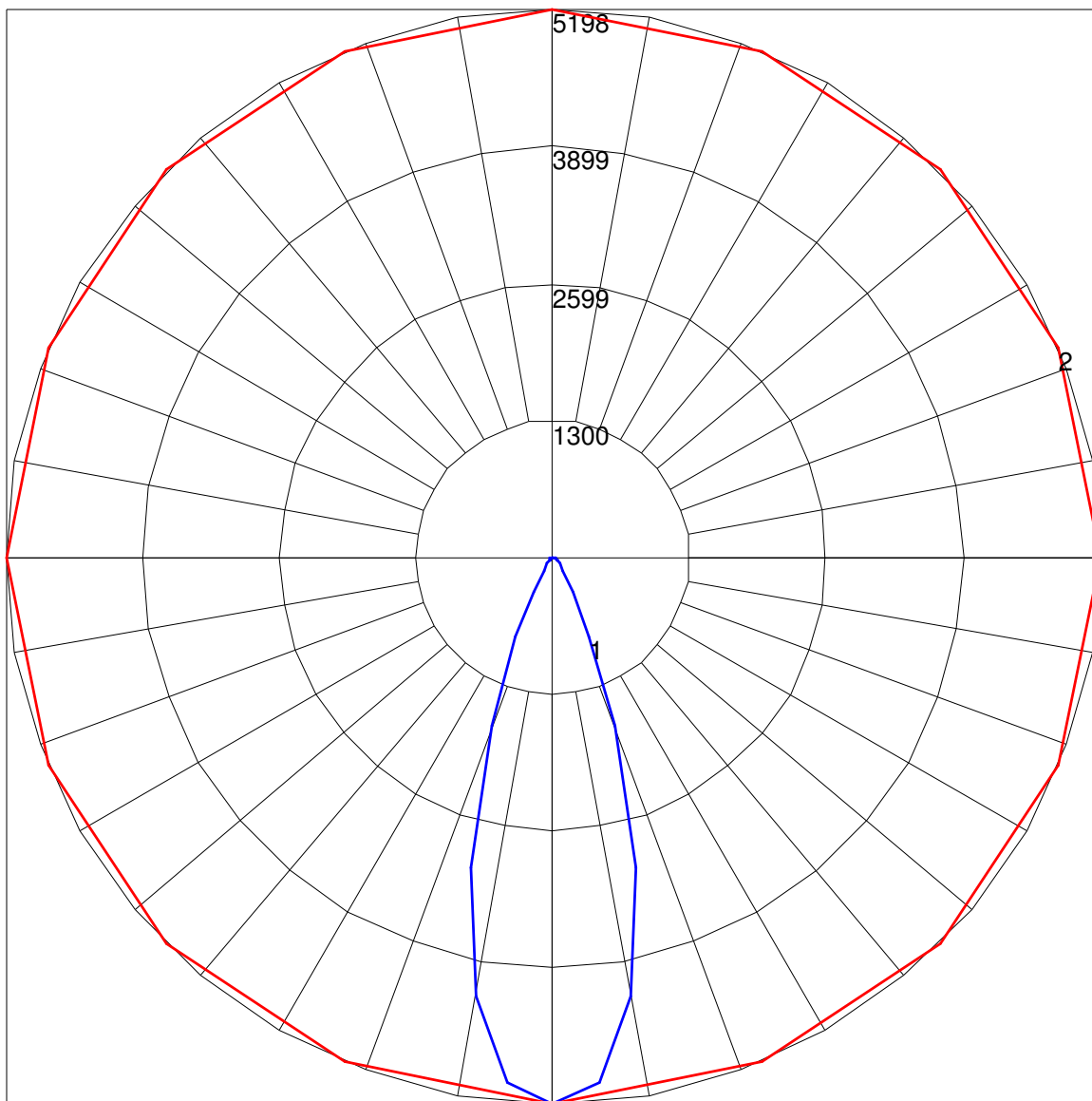
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	91
3	105	100	96	92	104	99	95	92	96	93	90	94	91	89	92	89	88	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	84	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64

POLAR GRAPH



Maximum Candela = 5198.184 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.)