



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L20-8TW-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

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

[MORE] ADVANCE # XI025C070V054DSM1 @ 625mA

[LUMCAT] 4DS-L20-8TW-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	1908
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	24
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	6749	7092	6062
55	4512	4512	4230
65	3445	3253	3253
75	2812	2500	2500
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	7978.878	7978.878	7978.878	7978.878	7978.878
5	7231.614	7173.234	7110.684	7158.222	7165.728
10	5291.730	5271.714	5113.254	5075.724	4995.660
15	3000.732	2984.052	2797.236	2748.864	2681.310
20	1431.978	1435.314	1305.210	1227.648	1220.142
25	629.670	607.986	552.108	518.748	487.056
30	272.718	256.038	241.026	223.512	204.330
35	131.772	126.768	124.266	112.590	101.748
40	73.392	72.558	75.894	67.554	61.716
45	49.206	48.372	51.708	46.704	44.202
50	35.028	35.028	37.530	35.028	32.526
55	26.688	25.854	26.688	25.854	25.020
60	20.850	20.016	20.850	20.850	20.016
65	15.012	14.178	14.178	14.178	14.178
70	11.676	10.842	10.008	10.842	10.008
75	7.506	5.004	6.672	5.838	6.672
80	2.502	1.668	2.502	3.336	2.502
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	1438.96	N.A.	75.40
0-30	1737.56	N.A.	91.10
0-40	1822.41	N.A.	95.50
0-60	1885.53	N.A.	98.80
0-80	1907.01	N.A.	100.00
0-90	1907.69	N.A.	100.00
10-90	1286.29	N.A.	67.40
20-40	383.46	N.A.	20.10
20-50	422.46	N.A.	22.10
40-70	77.89	N.A.	4.10
60-80	21.48	N.A.	1.10
70-80	6.70	N.A.	0.40
80-90	0.68	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	1907.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	621.40
10-20	817.56
20-30	298.60
30-40	84.86
40-50	39.00
50-60	24.12
60-70	14.77
70-80	6.70
80-90	0.68
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

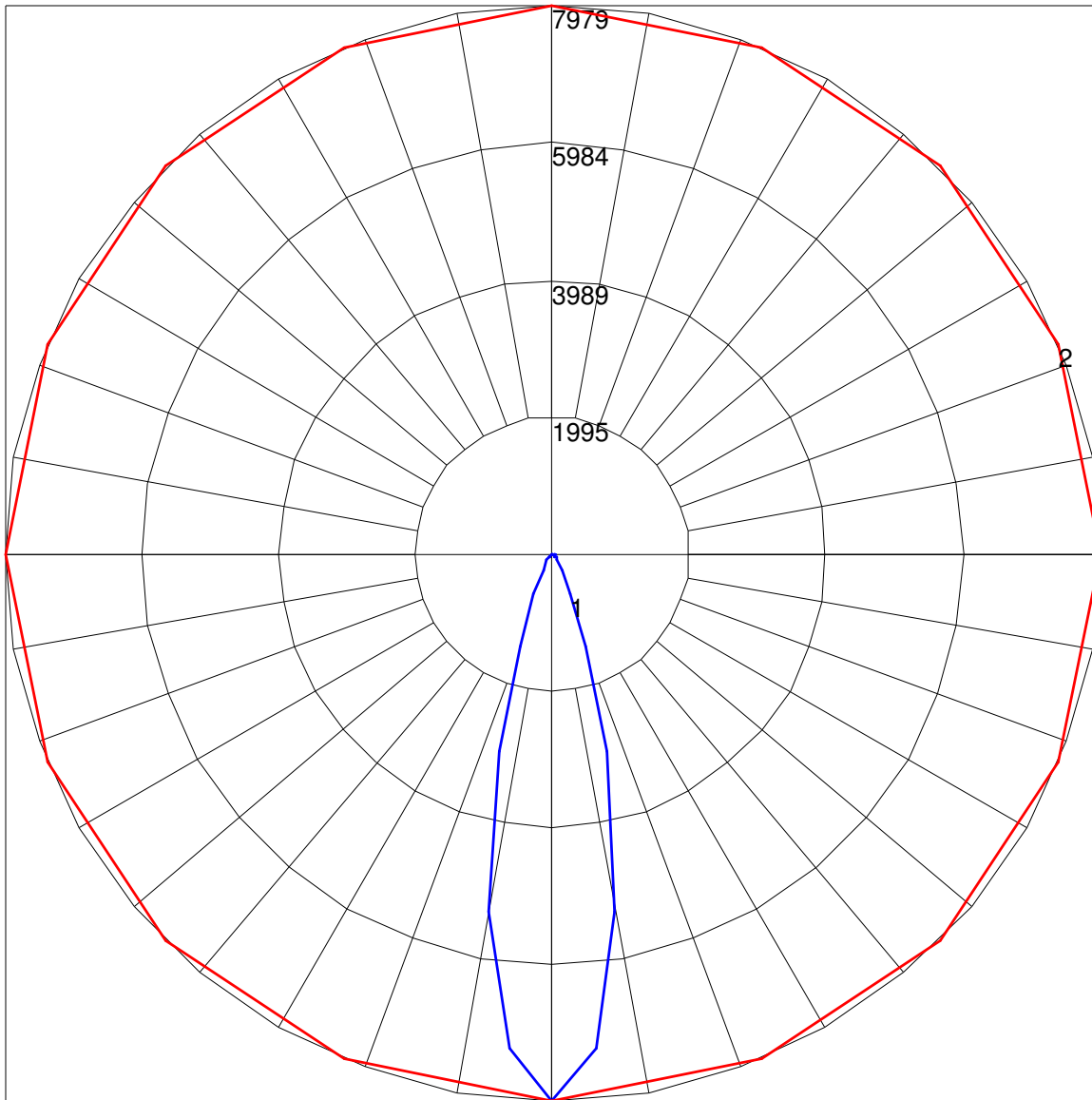
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	99	97	97	97	97	93	93	93	89	89	89	85	85	85	83
1	96	94	92	91	94	92	90	89	89	87	86	86	85	84	83	82	81	80
2	92	89	86	84	90	88	85	83	85	83	81	83	81	80	80	79	78	77
3	89	85	82	79	87	84	81	78	82	79	77	80	78	76	78	76	75	74
4	86	81	78	75	85	80	77	74	79	76	74	77	75	73	76	74	72	71
5	83	78	74	72	82	77	74	71	76	73	71	75	72	70	73	71	69	68
6	81	75	71	69	80	74	71	68	73	70	68	72	70	68	71	69	67	66
7	78	72	69	66	77	72	68	66	71	68	66	70	67	65	69	67	65	64
8	76	70	66	64	75	70	66	64	69	66	63	68	65	63	67	65	63	62
9	74	68	64	62	73	67	64	62	67	64	61	66	63	61	66	63	61	60
10	72	66	62	60	71	65	62	60	65	62	60	64	61	59	64	61	59	59

POLAR GRAPH



Maximum Candela = 7978.878 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.)