IES INDOOR REPORT
PHOTOMETRIC FILENAME : 4DS-L21-9DW-DIM-UNV-OM-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN from BALLABS TEST NO. 20312.0
[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 MED TIR OPTIC & 4"SEMI-SPEC TRIM w/FROST FILM
[MORE] ADVANCE # XI025C070V054DSM1 @ 625mA
[LUMCAT] 4DS-L21-9DW-DIM-UNV-OM-OF-CS
[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	1991
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.70
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	8234	16991	7842
55	967	1611	967
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3550.878	3550.878	3550.878	3550.878	3550.878
5	3410.787	3399.351	3375.526	3384.103	3376.479
10	3011.480	2999.091	2981.937	2980.984	2988.608
15	2463.505	2442.539	2439.680	2428.244	2435.868
20	1888.846	1868.833	1865.021	1864.068	1879.316
25	1313.234	1329.435	1299.892	1317.046	1304.657
30	809.097	833.875	871.042	840.546	803.379
35	425.038	463.158	530.821	465.064	412.649
40	166.775	214.425	287.806	213.472	161.057
45	60.039	73.381	123.890	85.770	57.180
50	21.919	25.731	36.214	25.731	20.013
55	5.718	8.577	9.530	6.671	5.718
60	0.000	0.000	0.953	0.953	0.000
65	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
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	988.52	N.A.	49.60
0-30	1594.81	N.A.	80.10
0-40	1902.35	N.A.	95.50
0-60	1991.06	N.A.	100.00
0-80	1991.18	N.A.	100.00
0-90	1991.18	N.A.	100.00
10-90	1680.04	N.A.	84.40
20-40	913.82	N.A.	45.90
20-50	993.10	N.A.	49.90
40-70	88.83	N.A.	4.50
60-80	0.12	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	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	1991.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	311.14
10-20	677.39
20-30	606.28
30-40	307.54
40-50	79.28
50-60	9.44
60-70	0.12
70-80	0.00
80-90	0.00
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	106	104	102	106	104	102	100	100	99	97	97	96	94	94	93	92	90
2	104	100	96	93	102	98	95	92	95	92	90	92	90	88	90	88	86	85
3	99	94	89	86	97	92	88	85	90	87	84	88	85	83	86	83	81	80
4	95	88	83	80	93	87	83	79	85	81	78	83	80	78	82	79	77	75
5	91	83	78	75	89	83	78	74	81	77	74	79	76	73	78	75	72	71
6	87	79	74	70	85	78	73	70	77	73	69	76	72	69	74	71	68	67
7	83	75	70	66	82	74	69	66	73	69	65	72	68	65	71	67	65	64
8	79	71	66	62	78	71	66	62	70	65	62	69	65	62	68	64	61	60
9	76	68	63	59	75	67	62	59	66	62	59	66	62	59	65	61	58	57
10	73	65	60	56	72	64	59	56	63	59	56	63	59	56	62	58	56	55

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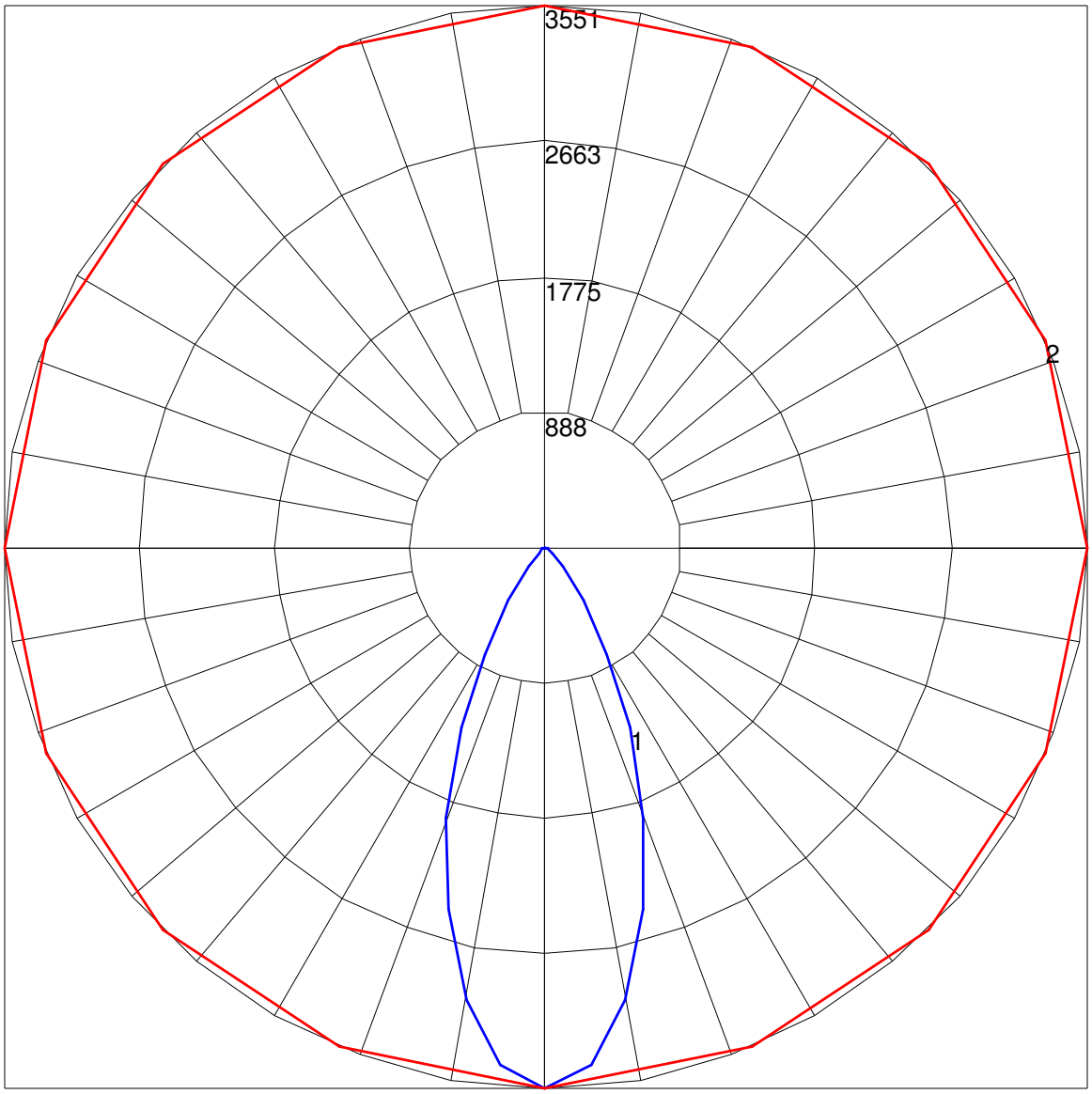
POLAR GRAPH



Maximum Candela = 3550.878 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.)