



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-L21-9DR-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

[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"CAST WHITE FLUSH w/SOLITE LENS

[MORE] ADVANCE # XI025C070V054DSM1 @ 625mA

[LUMCAT] 4DS-L21-9DW-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	2147
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	37.7
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	10064	10979	9411
55	6445	6767	6445
65	5467	5248	5467
75	3571	3571	3214
85	2121	1060	2121

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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	5762.791	5762.791	5762.791	5762.791	5762.791
5	5553.131	5533.118	5517.870	5489.280	5492.139
10	4766.906	4763.094	4726.880	4683.995	4641.110
15	3327.876	3419.364	3347.889	3306.910	3266.884
20	1850.726	1880.269	1913.624	1829.760	1743.037
25	903.444	936.799	940.611	871.995	815.768
30	425.991	442.192	446.957	401.213	380.247
35	203.942	220.143	234.438	211.566	181.070
40	111.501	119.125	126.749	113.407	101.018
45	73.381	75.287	80.052	73.381	68.616
50	52.415	53.368	54.321	52.415	49.556
55	38.120	40.026	40.026	39.073	38.120
60	31.449	31.449	30.496	29.543	29.543
65	23.825	23.825	22.872	22.872	23.825
70	15.248	15.248	15.248	15.248	14.295
75	9.530	9.530	9.530	9.530	8.577
80	5.718	5.718	4.765	5.718	4.765
85	1.906	2.859	0.953	1.906	1.906
90	0.000	0.000	0.000	0.953	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1407.62	N.A.	65.60
0-30	1864.58	N.A.	86.80
0-40	2013.77	N.A.	93.80
0-60	2111.15	N.A.	98.30
0-80	2144.35	N.A.	99.90
0-90	2146.91	N.A.	100.00
10-90	1645.94	N.A.	76.70
20-40	606.15	N.A.	28.20
20-50	667.37	N.A.	31.10
40-70	120.22	N.A.	5.60
60-80	33.20	N.A.	1.50
70-80	10.37	N.A.	0.50
80-90	2.56	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	2146.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	500.98
10-20	906.64
20-30	456.96
30-40	149.19
40-50	61.23
50-60	36.16
60-70	22.83
70-80	10.37
80-90	2.56
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

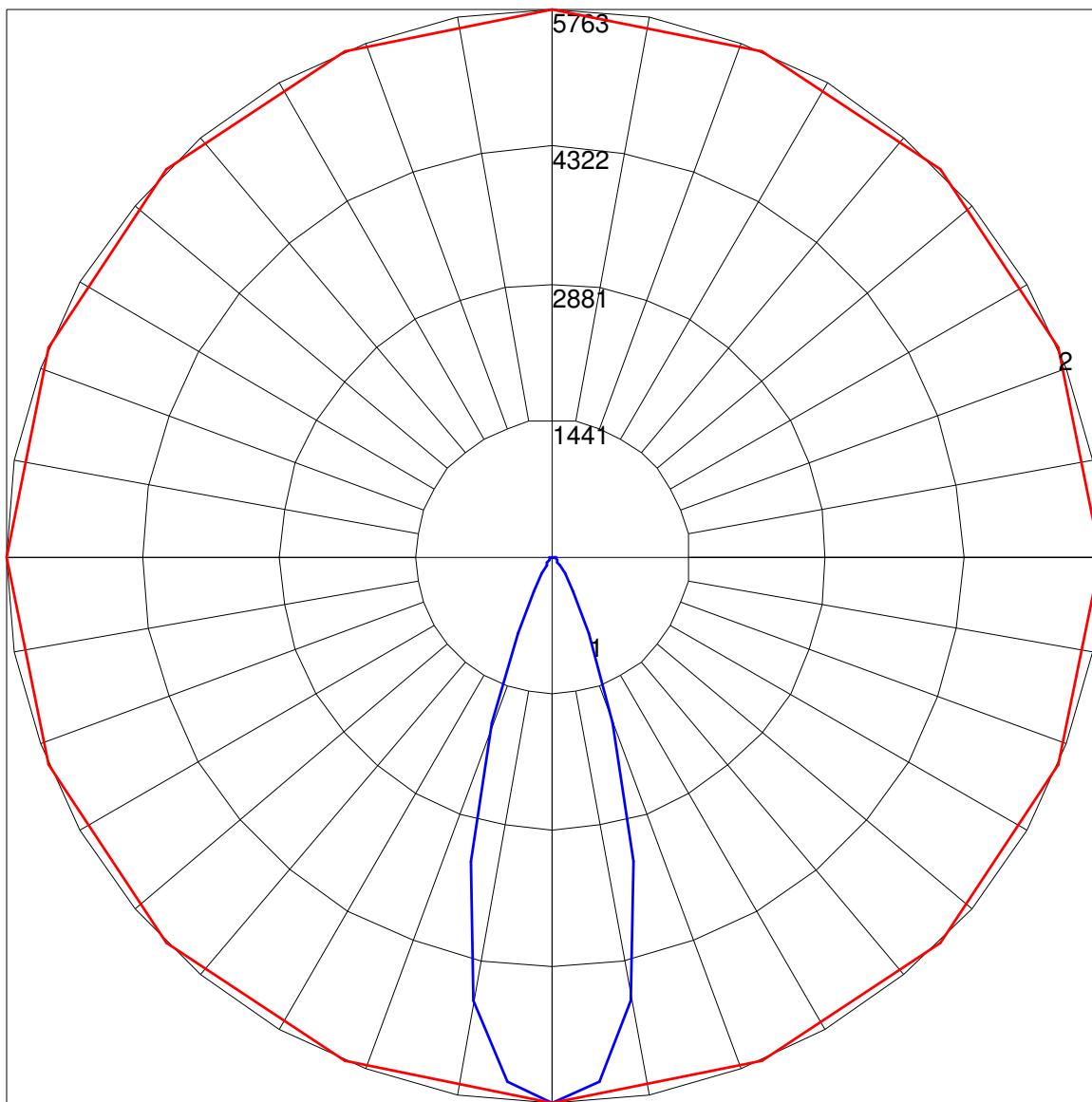
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	104	103	101	101	99	98	97	96	95	94	93	92	90
2	104	100	97	94	102	99	96	93	96	93	91	93	91	89	90	89	87	86
3	100	95	91	88	98	94	90	87	91	88	86	89	86	84	87	85	83	82
4	96	90	86	82	95	89	85	82	87	84	81	85	82	80	84	81	79	78
5	93	86	81	78	91	85	81	78	83	80	77	82	79	76	81	78	76	74
6	89	82	77	74	88	81	77	74	80	76	73	79	75	73	78	75	72	71
7	86	79	74	71	85	78	74	70	77	73	70	76	72	70	75	72	69	68
8	83	76	71	68	82	75	71	67	74	70	67	73	70	67	72	69	67	66
9	80	73	68	65	79	72	68	65	71	67	65	71	67	64	70	67	64	63
10	78	70	65	62	77	70	65	62	69	65	62	68	65	62	68	64	62	61

POLAR GRAPH



Maximum Candela = 5762.791 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.)