



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-P21-835-DIM-POE-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-P21-835-DIM-PoE-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	2495
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	25
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	8828	9277	7930
55	5902	5902	5534
65	4506	4256	4256
75	3679	3270	3270
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	10437.110	10437.110	10437.110	10437.110	10437.110
5	9459.619	9383.253	9301.432	9363.616	9373.434
10	6922.072	6895.889	6688.609	6639.516	6534.785
15	3925.235	3903.416	3659.043	3595.768	3507.401
20	1873.160	1877.523	1707.335	1605.877	1596.058
25	823.667	795.302	722.208	678.570	637.114
30	356.740	334.921	315.284	292.374	267.283
35	172.370	165.824	162.551	147.278	133.096
40	96.004	94.913	99.276	88.367	80.730
45	64.366	63.275	67.639	61.093	57.820
50	45.820	45.820	49.093	45.820	42.547
55	34.910	33.819	34.910	33.819	32.728
60	27.274	26.183	27.274	27.274	26.183
65	19.637	18.546	18.546	18.546	18.546
70	15.273	14.182	13.091	14.182	13.091
75	9.819	6.546	8.728	7.637	8.728
80	3.273	2.182	3.273	4.364	3.273
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	1882.29	N.A.	75.40
0-30	2272.88	N.A.	91.10
0-40	2383.89	N.A.	95.50
0-60	2466.45	N.A.	98.80
0-80	2494.55	N.A.	100.00
0-90	2495.43	N.A.	100.00
10-90	1682.59	N.A.	67.40
20-40	501.60	N.A.	20.10
20-50	552.61	N.A.	22.10
40-70	101.89	N.A.	4.10
60-80	28.09	N.A.	1.10
70-80	8.77	N.A.	0.40
80-90	0.89	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	2495.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	812.84
10-20	1069.44
20-30	390.60
30-40	111.00
40-50	51.01
50-60	31.55
60-70	19.33
70-80	8.77
80-90	0.89
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

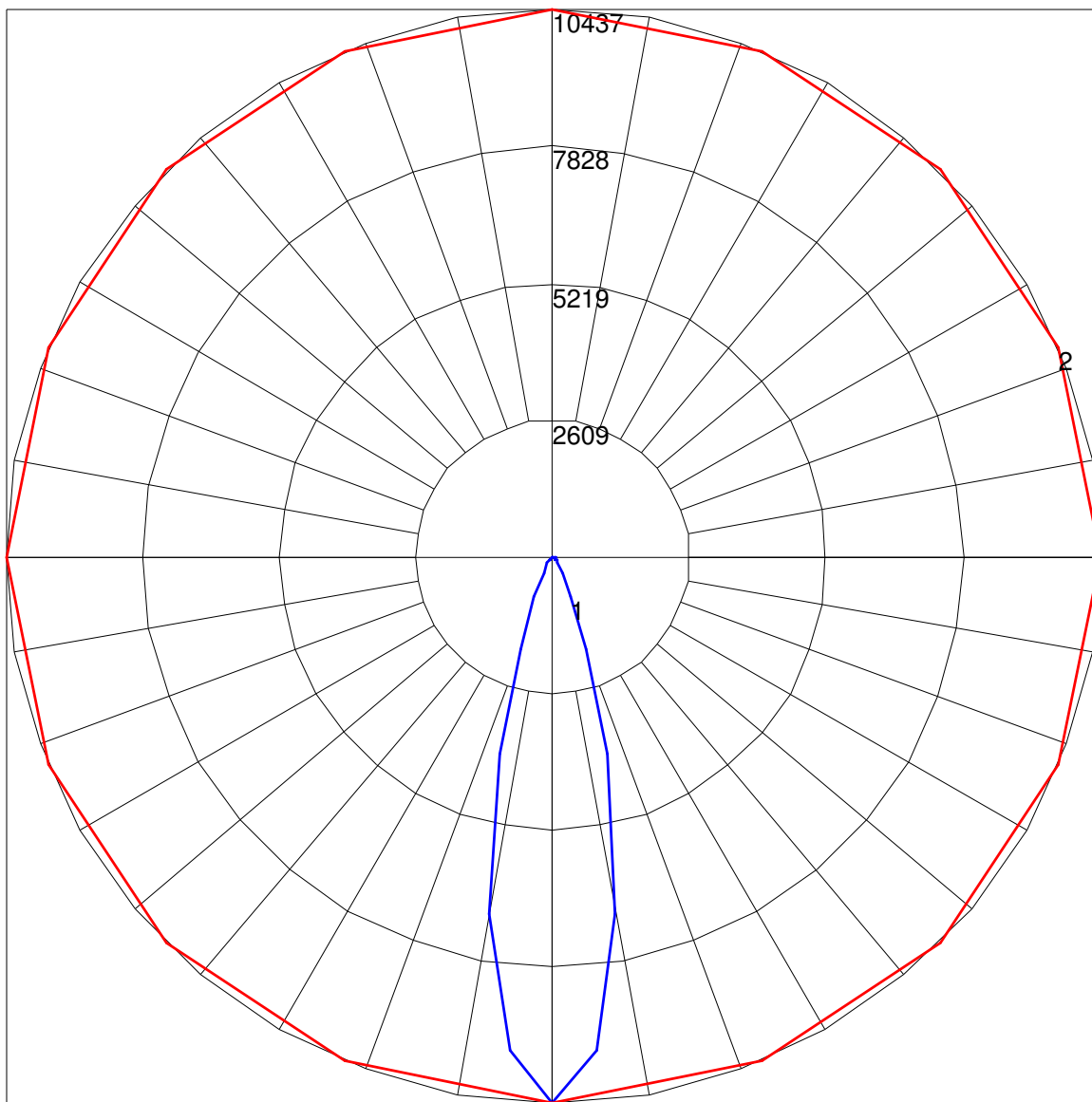
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	130	130	130	130	127	127	127	127	121	121	121	116	116	116	111	111	111	109
1	125	123	120	118	123	120	118	117	116	114	113	112	111	110	108	107	107	105
2	121	116	113	110	118	115	111	109	111	109	106	108	106	104	105	103	102	100
3	116	111	107	103	114	109	106	103	107	104	101	104	102	99	102	100	98	96
4	112	106	102	98	111	105	101	97	103	99	96	101	98	95	99	96	94	93
5	109	102	97	94	107	101	96	93	99	95	92	98	94	92	96	93	91	90
6	105	98	93	90	104	97	93	89	96	92	89	94	91	88	93	90	88	87
7	102	95	90	86	101	94	89	86	93	89	86	92	88	85	91	87	85	84
8	99	92	87	83	98	91	86	83	90	86	83	89	85	83	88	85	82	81
9	96	89	84	81	95	88	84	81	87	83	80	86	83	80	86	82	80	79
10	94	86	81	78	93	86	81	78	85	81	78	84	80	78	83	80	78	77

POLAR GRAPH



Maximum Candela = 10437.11 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.)