



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DS-P21-835-DIM-POE-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-P21-835-DIM-PoE-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	2469
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	25
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	11573	12625	10821
55	7411	7782	7411
65	6287	6035	6287
75	4106	4106	3696
85	2439	1220	2439

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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	6626.738	6626.738	6626.738	6626.738	6626.738
5	6385.646	6362.633	6345.099	6312.223	6315.511
10	5481.552	5477.168	5435.525	5386.211	5336.897
15	3826.785	3931.989	3849.798	3802.676	3756.649
20	2128.184	2162.156	2200.511	2104.074	2004.350
25	1038.887	1077.242	1081.626	1002.723	938.066
30	489.855	508.485	513.964	461.362	437.253
35	234.517	253.146	269.585	243.284	208.216
40	128.217	136.984	145.751	130.409	116.162
45	84.382	86.574	92.053	84.382	78.903
50	60.273	61.369	62.465	60.273	56.985
55	43.835	46.027	46.027	44.931	43.835
60	36.164	36.164	35.068	33.972	33.972
65	27.397	27.397	26.301	26.301	27.397
70	17.534	17.534	17.534	17.534	16.438
75	10.959	10.959	10.959	10.959	9.863
80	6.575	6.575	5.479	6.575	5.479
85	2.192	3.288	1.096	2.192	2.192
90	0.000	0.000	0.000	1.096	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1618.65	N.A.	65.60
0-30	2144.11	N.A.	86.80
0-40	2315.67	N.A.	93.80
0-60	2427.65	N.A.	98.30
0-80	2465.83	N.A.	99.90
0-90	2468.78	N.A.	100.00
10-90	1892.69	N.A.	76.70
20-40	697.02	N.A.	28.20
20-50	767.42	N.A.	31.10
40-70	138.24	N.A.	5.60
60-80	38.18	N.A.	1.50
70-80	11.92	N.A.	0.50
80-90	2.95	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	2468.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	576.08
10-20	1042.57
20-30	525.46
30-40	171.55
40-50	70.41
50-60	41.58
60-70	26.26
70-80	11.92
80-90	2.95
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

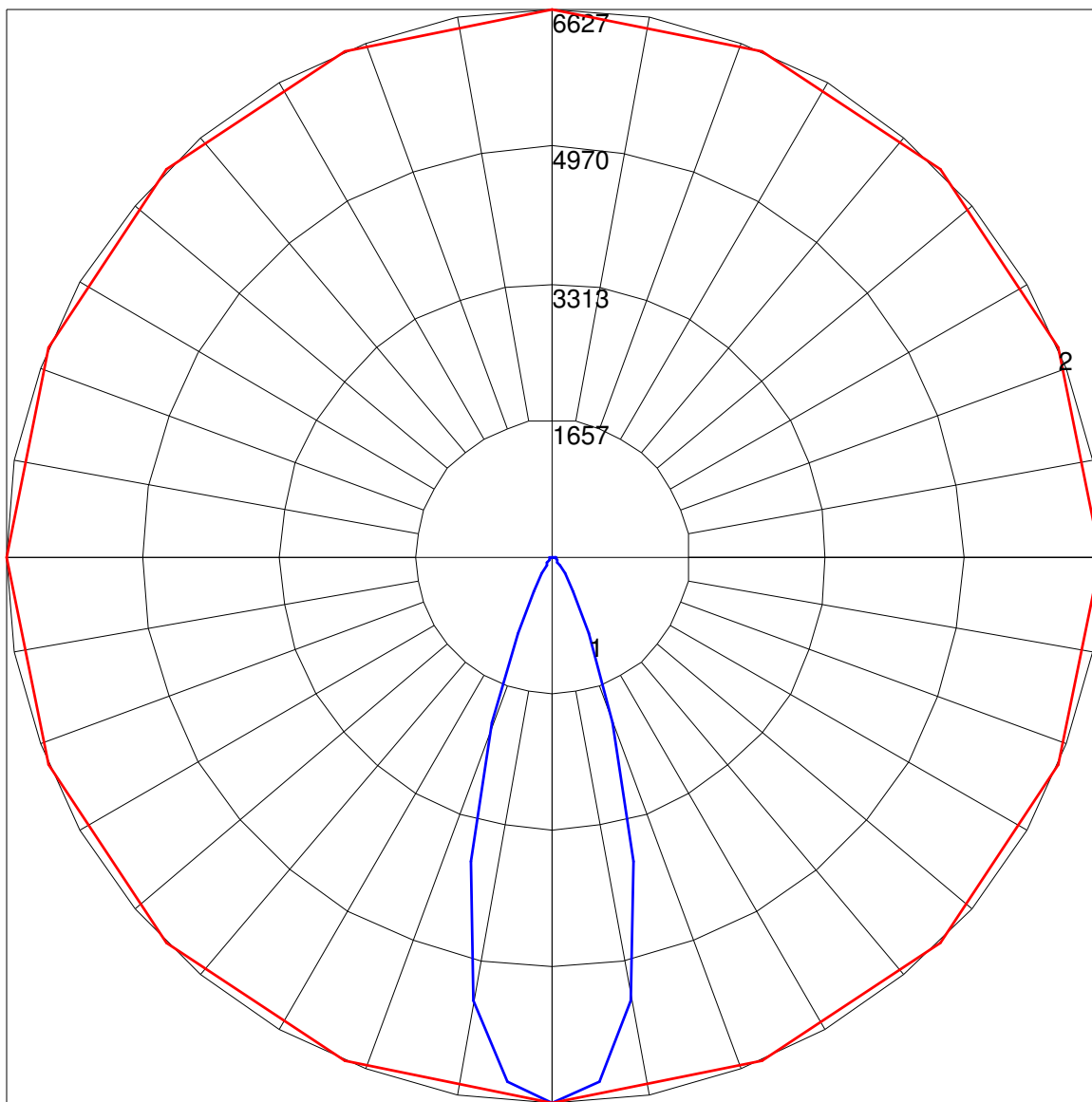
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	122	122	122	117	117	117	112	112	112	110
1	125	122	120	118	122	120	118	116	116	114	112	112	110	109	108	107	106	104
2	120	115	112	108	118	114	110	107	110	107	105	107	105	103	104	102	100	99
3	115	109	104	101	113	108	103	100	105	101	98	102	99	97	100	98	95	94
4	111	104	99	95	109	103	98	94	100	96	93	98	95	92	96	93	91	89
5	106	99	93	90	105	98	93	89	96	92	88	94	91	88	93	89	87	85
6	103	94	89	85	101	94	89	85	92	88	84	91	87	84	89	86	83	82
7	99	90	85	81	98	90	85	81	89	84	81	87	83	80	86	83	80	79
8	95	87	81	78	94	86	81	78	85	81	77	84	80	77	83	79	77	75
9	92	84	78	75	91	83	78	75	82	78	74	81	77	74	80	77	74	73
10	89	80	75	72	88	80	75	72	79	75	72	78	74	71	78	74	71	70

POLAR GRAPH



Maximum Candela = 6626.738 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.)