



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4DS-P21-835-DIM-POE-RM-OF-WH.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 20323.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 23-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 DIST TIR OPTIC & 4"CAST WHITE REGRESS w/SOLITE  
 [MORE] LENS ADVANCE #XI025C070V054DSM1 @ 625MA  
 [LUMCAT] 4DS-P21-835-DIM-PoE-RM-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	2425
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
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)	0.56
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	9134	11830	9434
55	6277	6461	5907
65	4259	4009	4259
75	1636	1228	1228
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>
<b>0</b>	6479.044	6479.044	6479.044	6479.044	6479.044
<b>5</b>	6248.663	6198.438	6175.509	6151.489	6140.570
<b>10</b>	5299.845	5319.498	5274.732	5269.273	5213.589
<b>15</b>	3807.284	3761.427	3786.539	3800.733	3710.110
<b>20</b>	2128.018	2129.109	2202.263	2254.672	2134.569
<b>25</b>	1029.615	1039.442	1100.586	1096.218	1051.453
<b>30</b>	461.853	488.057	537.191	538.283	507.711
<b>35</b>	205.268	224.921	278.422	266.412	228.197
<b>40</b>	107.001	114.644	151.767	136.481	120.104
<b>45</b>	66.603	69.878	86.256	77.521	68.787
<b>50</b>	49.133	49.133	53.501	51.317	48.041
<b>55</b>	37.123	38.215	38.215	36.031	34.939
<b>60</b>	26.204	26.204	24.021	25.113	24.021
<b>65</b>	18.561	18.561	17.470	18.561	18.561
<b>70</b>	8.735	8.735	7.643	8.735	7.643
<b>75</b>	4.367	4.367	3.276	6.551	3.276
<b>80</b>	2.184	2.184	2.184	3.276	2.184
<b>85</b>	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1589.42	N.A.	65.60
0-30	2130.24	N.A.	87.90
0-40	2304.66	N.A.	95.10
0-60	2401.43	N.A.	99.00
0-80	2423.94	N.A.	100.00
0-90	2424.61	N.A.	100.00
10-90	1863.31	N.A.	76.90
20-40	715.23	N.A.	29.50
20-50	778.54	N.A.	32.10
40-70	114.07	N.A.	4.70
60-80	22.51	N.A.	0.90
70-80	5.22	N.A.	0.20
80-90	0.67	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	2424.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	561.30
10-20	1028.12
20-30	540.82
30-40	174.41
40-50	63.31
50-60	33.47
60-70	17.29
70-80	5.22
80-90	0.67
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

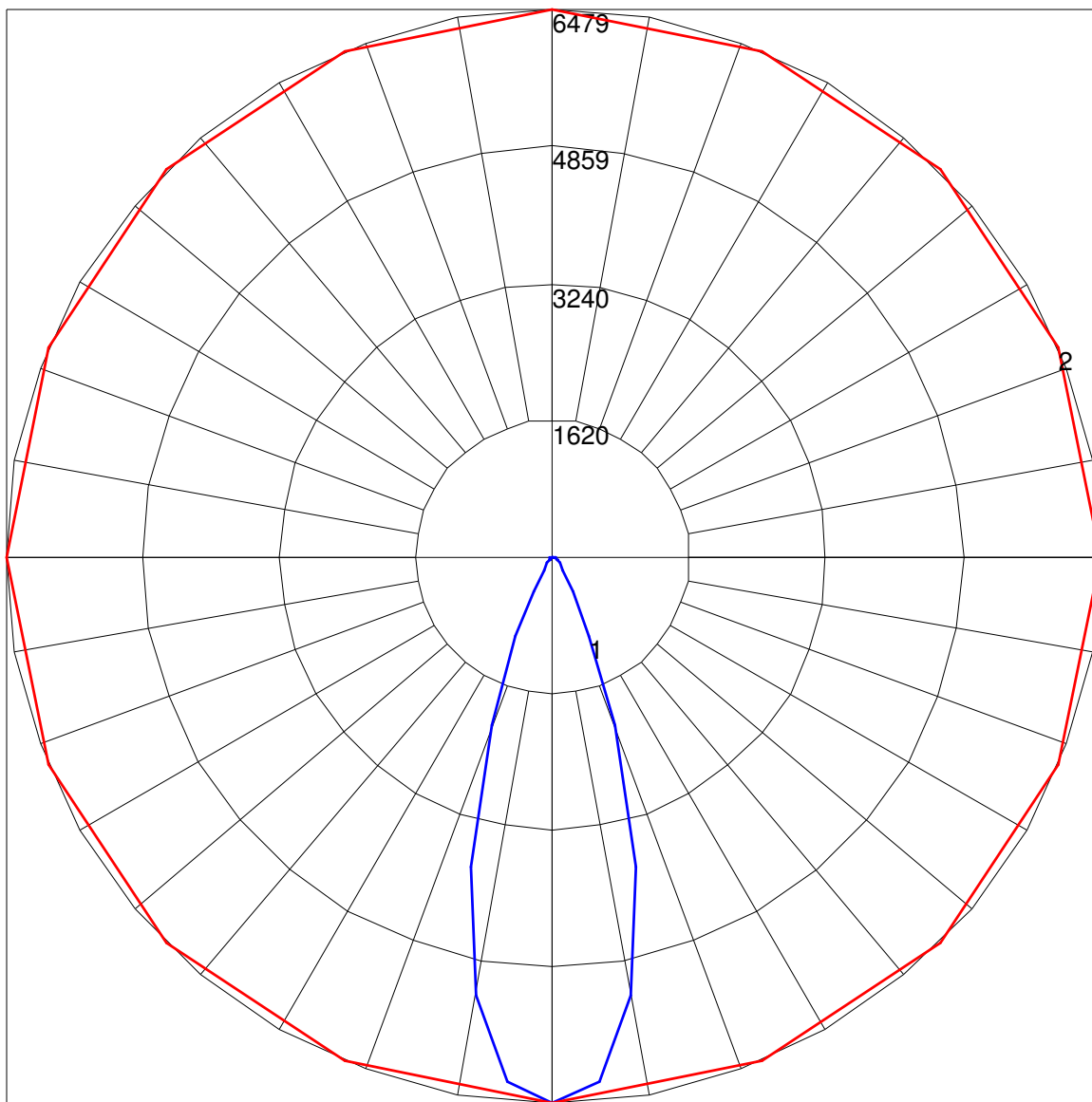
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	122	120	118	122	120	118	116	115	114	112	111	110	109	108	107	106	104
2	120	115	112	108	118	113	110	107	110	107	105	107	105	103	104	102	101	99
3	115	109	105	101	113	108	104	100	105	101	99	102	100	97	100	98	96	94
4	111	104	99	95	109	103	98	94	100	96	93	98	95	92	96	94	91	90
5	106	99	94	90	105	98	93	89	96	92	89	94	91	88	93	90	87	86
6	103	95	89	85	101	94	89	85	92	88	85	91	87	84	90	86	83	82
7	99	91	85	81	98	90	85	81	89	84	81	87	83	80	86	83	80	79
8	95	87	82	78	94	86	81	78	85	81	78	84	80	77	83	80	77	76
9	92	84	78	75	91	83	78	75	82	78	75	81	77	74	81	77	74	73
10	89	81	75	72	88	80	75	72	79	75	72	79	74	72	78	74	71	70

POLAR GRAPH



Maximum Candela = 6479.044 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.)