



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]GEN from BALLABS TEST NO. 20314.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 16-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] WHITE MIXING CHAMBER & SEMISPEC WALLWASH TRIM w/FROST FIL  
 [MORE] ADVANCE #XI025C070V054DSM1 @ 625mA  
 [LUMCAT] 4DS-P21-835-DIM-PoE-OWW-OF-CS  
 [LAMPCAT] BXRE-352000  
 [\_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	1920
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.88
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	67928	39949	20049
55	50540	15494	3505
65	41557	4506	0
75	22891	0	0
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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	2032.438	2032.438	2032.438	2032.438	2032.438	2032.438	2032.438	2032.438	2032.438
<b>5</b>	2030.256	2014.983	2020.438	2020.438	2021.529	2019.347	2023.711	2023.711	2022.620
<b>10</b>	1918.979	1914.616	1935.344	1937.526	1935.344	1939.707	1964.799	1974.618	1971.345
<b>15</b>	1731.336	1732.427	1748.791	1761.883	1741.155	1782.611	1826.249	1834.976	1814.248
<b>20</b>	1474.963	1508.783	1509.873	1517.510	1466.236	1526.238	1605.877	1574.239	1508.783
<b>25</b>	1182.589	1221.863	1237.136	1157.497	1132.405	1174.952	1290.593	1225.136	1143.315
<b>30</b>	895.669	904.397	917.488	777.847	739.663	844.395	932.761	857.486	799.666
<b>35</b>	676.388	668.752	632.750	501.837	446.198	555.293	614.204	581.476	523.656
<b>40</b>	583.658	543.293	413.470	307.648	262.919	318.557	368.741	377.468	363.286
<b>45</b>	495.291	454.926	291.283	178.916	146.187	166.915	210.553	199.644	195.280
<b>50</b>	388.378	349.104	189.825	91.640	81.821	80.730	100.367	91.640	90.549
<b>55</b>	298.920	260.737	91.640	34.910	20.728	28.365	33.819	29.456	22.910
<b>60</b>	225.826	196.371	43.638	4.364	0.000	1.091	8.728	3.273	3.273
<b>65</b>	181.098	144.005	19.637	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	128.732	89.458	5.455	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	61.093	40.365	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	1.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	682.85	N.A.	35.60
0-30	1228.51	N.A.	64.00
0-40	1598.64	N.A.	83.30
0-60	1878.09	N.A.	97.80
0-80	1920.12	N.A.	100.00
0-90	1920.14	N.A.	100.00
10-90	1729.85	N.A.	90.10
20-40	915.79	N.A.	47.70
20-50	1114.17	N.A.	58.00
40-70	311.57	N.A.	16.20
60-80	42.03	N.A.	2.20
70-80	9.91	N.A.	0.50
80-90	0.02	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	1920.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	190.29
10-20	492.56
20-30	545.66
30-40	370.13
40-50	198.38
50-60	81.07
60-70	32.12
70-80	9.91
80-90	0.02
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

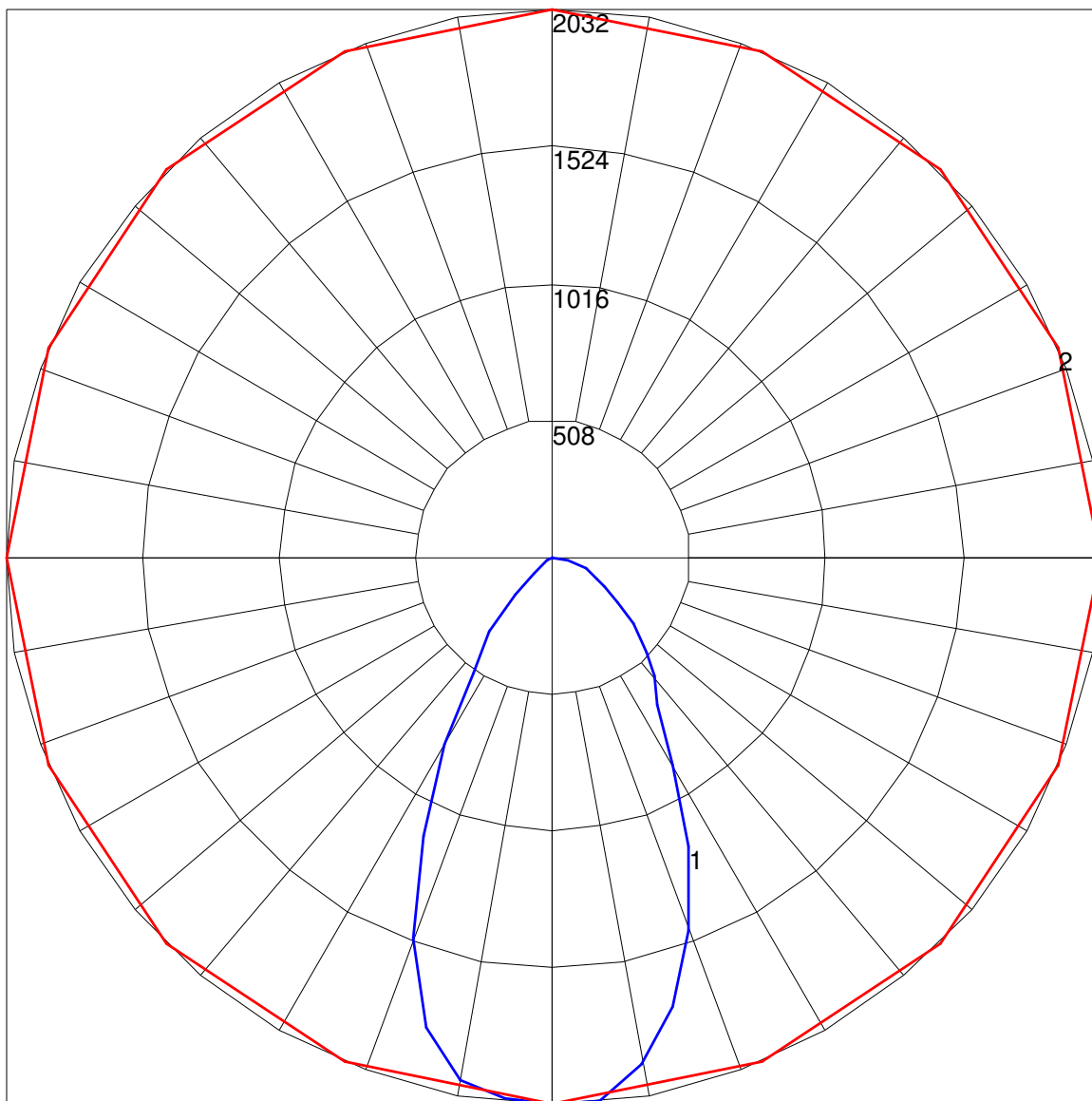
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	123	120	117	115	121	118	115	113	113	111	109	109	107	106	105	104	103	101
2	117	111	106	102	114	109	105	101	105	102	99	102	99	96	99	97	94	93
3	110	102	97	92	108	101	95	91	98	93	90	95	91	88	93	90	87	85
4	104	95	89	84	102	94	88	83	91	86	82	89	85	81	87	83	80	78
5	98	88	82	77	96	87	81	76	85	80	75	83	79	75	82	78	74	72
6	93	83	76	71	91	82	75	70	80	74	70	78	73	69	77	72	69	67
7	88	77	70	65	87	76	70	65	75	69	65	74	68	64	72	68	64	62
8	84	72	66	61	82	72	65	61	71	65	60	69	64	60	68	64	60	58
9	79	68	61	57	78	68	61	57	67	61	57	66	60	56	65	60	56	55
10	76	64	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53	51

POLAR GRAPH



Maximum Candela = 2032.438 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.)