



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L15-835-DIM-UNV-OW-OF-CS\_0 DEGREE TILT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20389.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 20-JUL-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTAHEGE, MO

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT

[MORE] ACRYLIC WIDE TIR OPTIC & 6" OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-L15-835-DIM-UNV-OW-OF-CS\_0 DEG TILT

[LAMPCAT] BXRE-35E2000

[\_SEARCH\_SOURCE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Industrial, Office, Direct, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	15.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	525	409	701
55	0	72	144
65	0	0	0
75	0	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>	2083.505	2083.505	2083.505	2083.505	2083.505	2083.505	2083.505	2083.505	2083.505
<b>5</b>	2091.797	2085.013	2081.244	2075.214	2067.676	2060.891	2049.584	2041.293	2036.016
<b>10</b>	2123.457	2113.657	2097.828	2087.274	2085.767	2084.259	2069.183	2054.861	2038.277
<b>15</b>	2119.688	2100.843	2078.229	2046.569	2029.986	2015.663	1990.034	1936.514	1913.900
<b>20</b>	1950.836	1974.204	1909.377	1896.563	1870.934	1824.198	1780.478	1757.110	1712.635
<b>25</b>	1443.529	1399.808	1440.513	1401.316	1372.671	1282.969	1271.662	1254.325	1227.188
<b>30</b>	835.211	845.011	796.014	742.494	734.956	718.372	685.205	658.068	628.670
<b>35</b>	196.742	180.912	152.268	172.620	152.268	147.745	147.745	133.423	155.283
<b>40</b>	42.213	37.690	33.921	35.429	39.198	36.936	36.182	36.182	30.906
<b>45</b>	6.784	5.277	5.277	7.538	9.046	9.799	8.292	9.799	8.292
<b>50</b>	2.261	1.508	0.754	1.508	2.261	3.015	2.261	3.015	3.015
<b>55</b>	0.000	0.000	0.754	0.754	1.508	0.754	0.000	1.508	0.754
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6AR-L15-835-DIM-UNV-OW-OF-CS\_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	761.88	N.A.	49.60
0-30	1361.26	N.A.	88.60
0-40	1525.76	N.A.	99.30
0-60	1536.76	N.A.	100.00
0-80	1536.76	N.A.	100.00
0-90	1536.76	N.A.	100.00
10-90	1338.7	N.A.	87.10
20-40	763.88	N.A.	49.70
20-50	774.10	N.A.	50.40
40-70	11.00	N.A.	0.70
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	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	1536.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	198.05
10-20	563.83
20-30	599.37
30-40	164.50
40-50	10.22
50-60	0.78
60-70	0.00
70-80	0.00
80-90	0.00
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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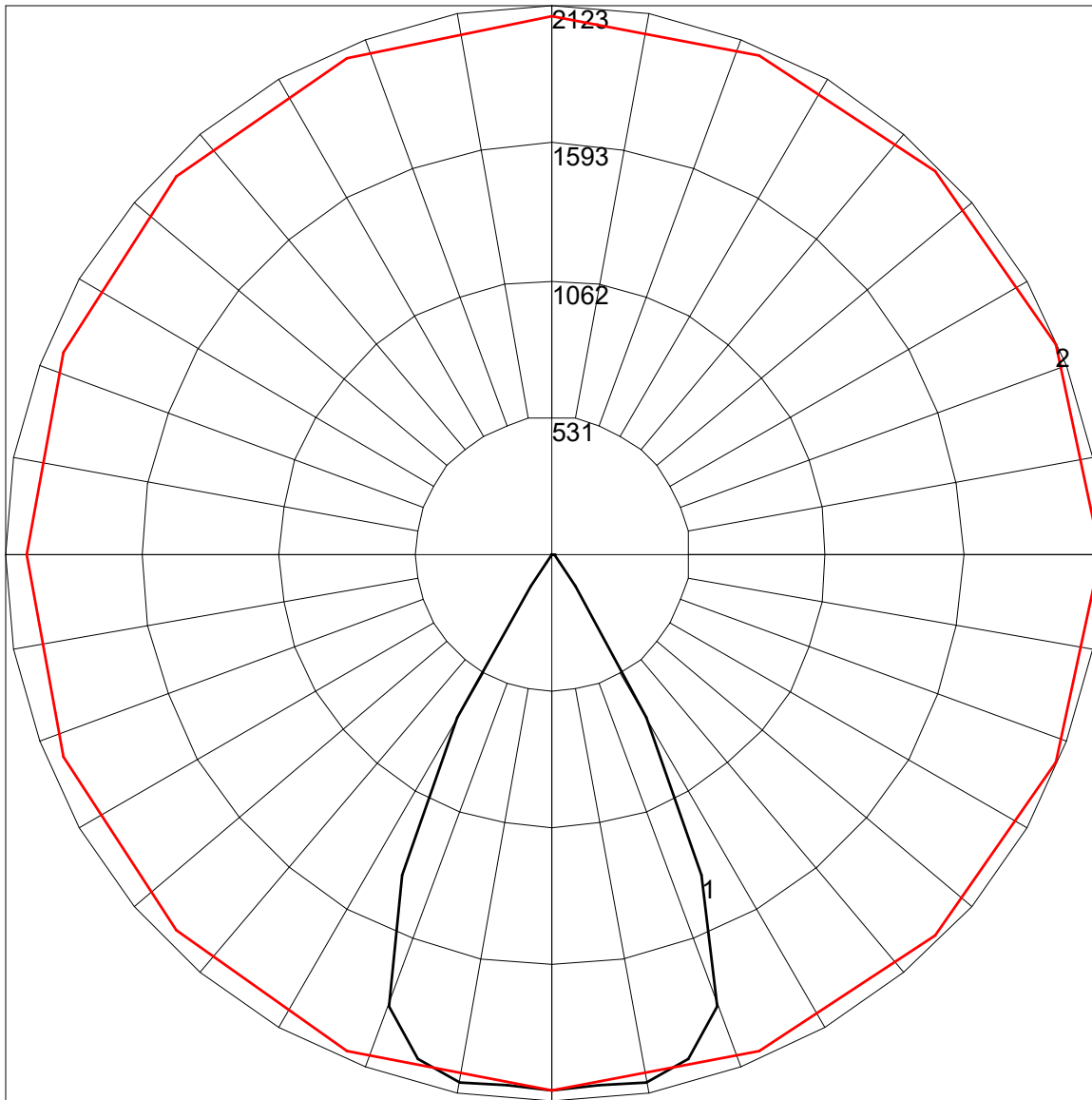
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	75
1	86	84	82	81	84	83	81	80	79	78	77	77	76	75	74	73	73	71
2	82	79	76	74	81	78	75	73	75	73	72	73	72	70	71	70	69	68
3	79	75	71	69	77	74	70	68	72	69	67	70	68	66	68	66	65	64
4	75	70	67	64	74	70	66	64	68	65	63	67	64	62	65	63	61	60
5	72	67	63	60	71	66	62	60	65	62	59	63	61	59	62	60	58	57
6	69	63	59	56	68	63	59	56	62	58	56	61	58	55	60	57	55	54
7	66	60	56	53	65	60	56	53	59	55	53	58	55	53	57	54	52	51
8	63	57	53	50	63	57	53	50	56	52	50	55	52	50	54	52	50	49
9	61	54	50	48	60	54	50	48	53	50	47	53	50	47	52	49	47	46
10	58	52	48	45	58	52	48	45	51	48	45	50	47	45	50	47	45	44

POLAR GRAPH



Maximum Candela = 2123.457 Located At Horizontal Angle = 0, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)