



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-P10-835-POE-OM-OF-CS_0 DEGREE TILT_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20448.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 12-MAR-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 4" SHORT HEATSINK 4" RND ADJ DOWNLIGHT @ 0 TILT

[MORE] ACRYLIC MED TIR OPTIC & 4" OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 4AR-P10-835-PoE-OM-OF-CS_0 DEGREE TILT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	12.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.54
Spacing Criterion (90-270)	0.54
Spacing Criterion (Diagonal)	0.48
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 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	290	290	290
55	119	119	119
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>
0	3869.070	3869.070	3869.070	3869.070	3869.070	3869.070	3869.070	3869.070	3869.070
5	3850.791	3812.571	3807.586	3804.816	3805.370	3818.110	3814.786	3812.571	3802.600
10	3408.770	3392.152	3409.877	3394.922	3378.858	3293.002	3298.541	3308.512	3223.763
15	2032.300	2048.364	2195.150	2123.696	2079.383	1886.068	1682.228	1689.429	1578.647
20	710.668	725.624	755.535	760.520	719.531	636.998	599.886	567.759	537.294
25	299.112	309.636	322.930	325.700	317.945	266.985	238.182	229.873	205.501
30	108.013	108.013	112.444	112.998	102.474	93.057	79.209	73.116	63.146
35	19.387	17.725	18.833	18.279	17.725	16.617	14.402	14.402	14.402
40	7.201	6.647	6.093	6.093	6.093	6.093	5.539	5.539	4.985
45	1.662	1.662	1.662	1.662	1.662	1.662	1.108	1.662	1.662
50	0.554	0.554	0.554	0.554	0.554	0.554	0.000	0.000	0.554
55	0.554	0.554	0.554	0.000	0.554	1.108	0.000	1.108	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4AR-P10-835-POE-OM-OF-CS_0 DEGREE TILT_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	877.00	N.A.	83.70
0-30	1025.28	N.A.	97.80
0-40	1045.7	N.A.	99.80
0-60	1047.84	N.A.	100.00
0-80	1047.84	N.A.	100.00
0-90	1047.84	N.A.	100.00
10-90	699.80	N.A.	66.80
20-40	168.69	N.A.	16.10
20-50	170.51	N.A.	16.30
40-70	2.14	N.A.	0.20
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	1047.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	348.04
10-20	528.97
20-30	148.28
30-40	20.42
40-50	1.82
50-60	0.32
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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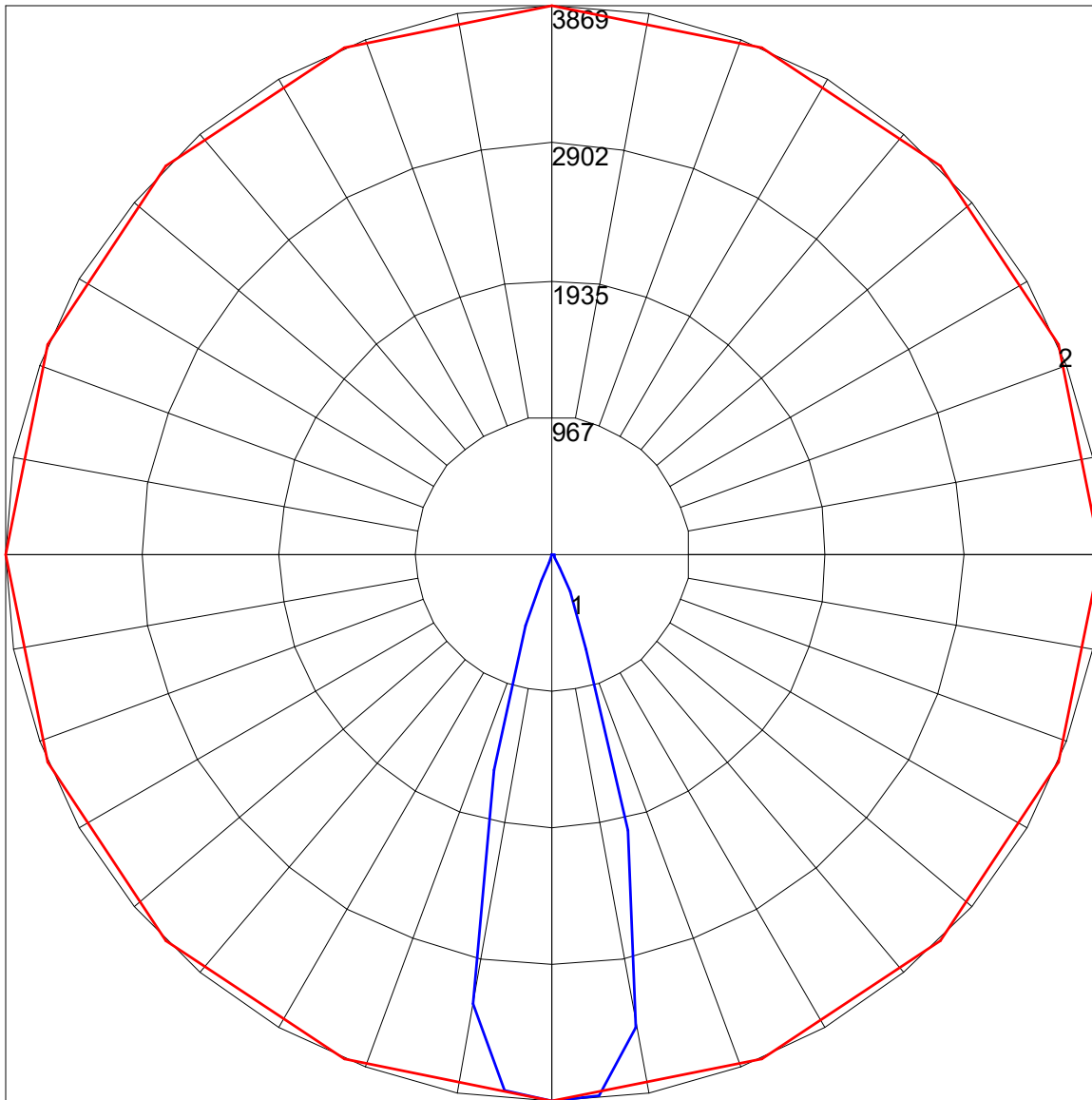
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	193	193	193	193	188	188	188	188	180	180	180	172	172	172	165	165	165	162
1	186	183	180	177	182	179	177	174	173	171	169	167	165	164	162	160	159	157
2	180	175	170	166	177	172	168	164	167	163	160	162	159	157	158	156	154	152
3	175	167	162	157	172	165	160	156	161	157	153	158	154	151	154	151	149	147
4	169	161	155	150	167	159	154	149	156	151	147	153	149	146	150	147	144	142
5	165	155	149	144	162	154	148	143	151	146	142	149	145	141	147	143	140	138
6	160	150	144	139	158	149	143	138	147	142	138	145	140	137	143	139	136	134
7	156	145	139	134	154	144	138	134	143	137	133	141	136	133	139	135	132	130
8	151	141	134	130	150	140	134	130	139	133	129	137	132	129	136	132	128	127
9	147	137	130	126	146	136	130	126	135	129	126	134	129	125	133	128	125	123
10	144	133	127	123	142	133	127	122	131	126	122	130	125	122	130	125	122	120

POLAR GRAPH



Maximum Candela = 3869.07 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.)