



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-L10-835-DIM-UNV-ON-OF-CS_0 DEGREE TILT_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20451.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 11-MAR-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 4AR-L10-835-DIM-UNV-ON-OF-CS_0 DEGREE TILT

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

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

[_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	1014
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	12.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.40
Spacing Criterion (Diagonal)	0.38
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	786	786	786
55	0	0	0
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	5858.5	5858.5	5858.5	5858.5	5858.5	5858.5	5858.5	5858.5	5858.5
5	5315.0	5212.5	5224.5	5272.5	5230.0	5260.0	5101.0	5139.0	5138.0
10	3345.5	3334.5	3355.5	3533.5	3406.0	3360.0	3167.0	3300.0	3164.0
15	1416.0	1331.5	1509.5	1528.5	1579.0	1603.0	1526.0	1443.0	1373.0
20	511.5	469.0	526.5	541.0	606.0	578.5	559.5	560.5	536.5
25	162.5	162.5	172.0	192.5	193.5	196.5	184.0	188.0	193.0
30	49.0	47.5	46.0	49.0	50.5	50.5	49.5	50.5	46.0
35	14.0	15.0	15.0	15.0	16.5	16.0	15.5	15.5	13.0
40	6.5	6.0	6.5	7.0	7.0	7.0	6.0	6.0	5.0
45	4.5	4.5	4.5	4.5	4.5	3.5	2.0	3.5	3.5
50	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4AR-L10-835-DIM-UNV-ON-OF-CS_0 DEGREE TILT_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	892.18	N.A.	88.00
0-30	998.02	N.A.	98.40
0-40	1011.08	N.A.	99.70
0-60	1013.82	N.A.	100.00
0-80	1013.82	N.A.	100.00
0-90	1013.82	N.A.	100.00
10-90	575.76	N.A.	56.80
20-40	118.90	N.A.	11.70
20-50	121.61	N.A.	12.00
40-70	2.74	N.A.	0.30
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	1013.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	438.06
10-20	454.12
20-30	105.84
30-40	13.06
40-50	2.71
50-60	0.03
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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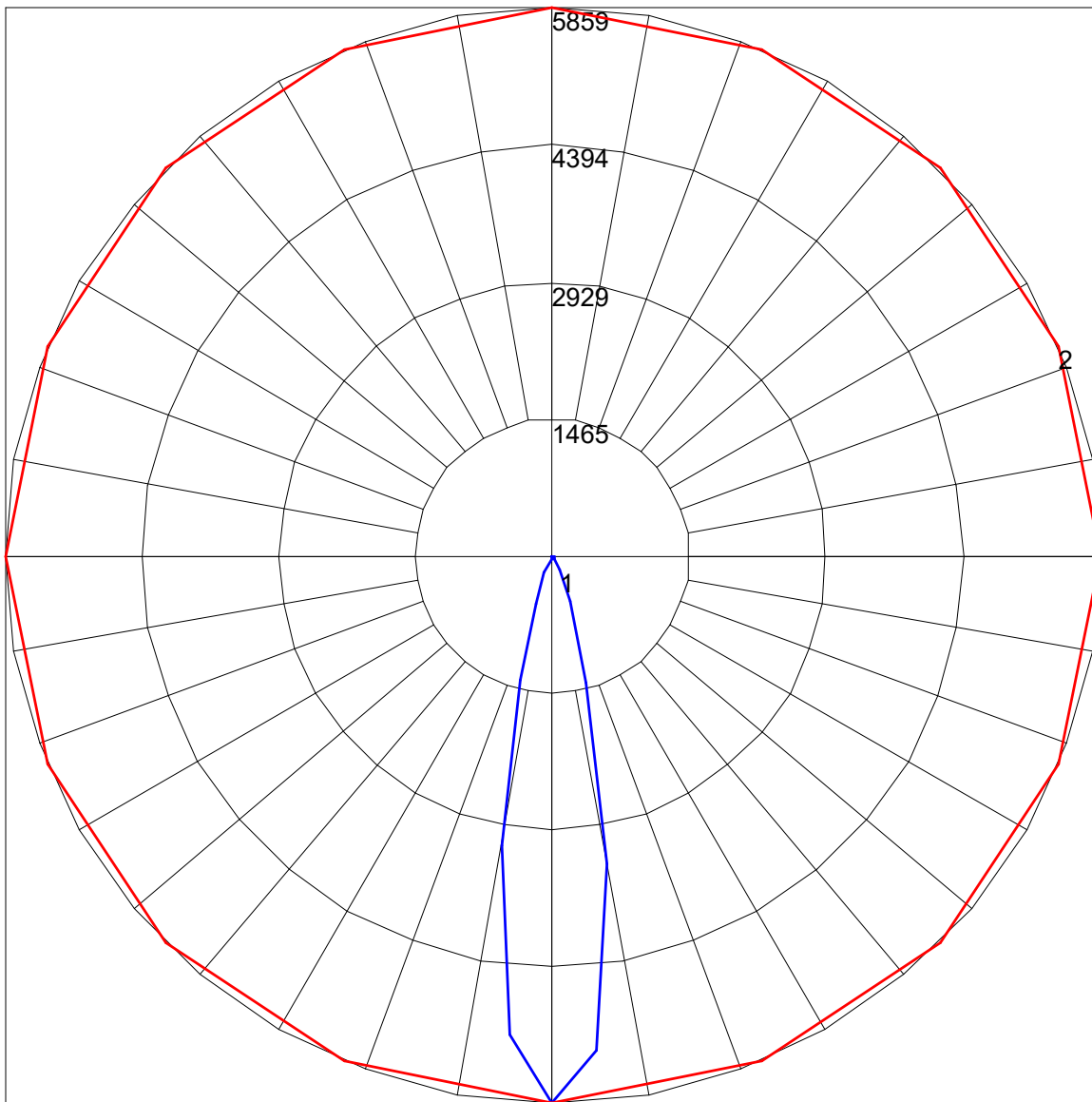
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50
1	58	57	56	55	57	56	55	54	54	53	52	52	51	51	50	50	49	49
2	56	54	53	52	55	54	52	51	52	51	50	51	50	49	49	49	48	47
3	54	52	51	49	54	52	50	49	50	49	48	49	48	47	48	47	47	46
4	53	51	49	47	52	50	48	47	49	48	47	48	47	46	47	46	46	45
5	52	49	47	46	51	49	47	46	48	46	45	47	46	45	46	45	44	44
6	50	48	46	44	50	47	45	44	47	45	44	46	45	44	45	44	43	43
7	49	46	44	43	49	46	44	43	45	44	43	45	44	43	45	43	42	42
8	48	45	43	42	48	45	43	42	44	43	42	44	43	42	44	42	41	41
9	47	44	42	41	47	44	42	41	43	42	41	43	42	41	43	41	41	40
10	46	43	41	40	46	43	41	40	43	41	40	42	41	40	42	41	40	39

POLAR GRAPH



Maximum Candela = 5858.5 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.)