



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-L15-835-DIM-UNV-O-W-OF-CS_0 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20445.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 09-MAY-2018

[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 WIDE TIR OPTIC & 4"OPEN ASYM SEMI-SPEC TRIM

[MORE] ADVANCE #XI025C070V054DSM1 @ 610mA

[LUMCAT] 4AR-L15-835-DIM-UNV-O-W-OF-CS_0 DEGREE TILT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1041
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	17.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.64
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	659	527	1054
55	649	649	649
65	661	220	220
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	2023.161	2023.161	2023.161	2023.161	2023.161	2023.161	2023.161	2023.161	2023.161
5	2086.526	2082.000	2078.983	2075.211	2073.702	2076.719	2079.737	2087.280	2082.754
10	2156.680	2148.383	2142.348	2144.611	2149.137	2165.733	2174.785	2183.083	2184.591
15	2022.406	1999.022	1988.461	1992.233	2002.793	2044.283	2072.948	2077.474	2084.263
20	1366.124	1309.548	1323.126	1258.252	1338.213	1296.724	1406.104	1435.524	1498.135
25	509.939	495.607	518.991	546.148	550.674	540.113	523.517	519.746	514.465
30	135.783	140.309	129.748	109.380	135.783	144.080	122.959	111.643	130.502
35	15.841	15.087	15.841	18.104	24.139	25.648	22.630	21.876	22.630
40	6.035	6.035	6.035	9.052	10.561	11.315	9.807	9.807	9.807
45	3.772	3.772	3.017	3.017	6.035	6.789	5.280	5.280	5.280
50	5.280	3.017	2.263	3.772	3.772	5.280	3.017	3.772	3.772
55	3.017	3.017	3.017	1.509	3.017	2.263	2.263	2.263	2.263
60	2.263	1.509	0.754	1.509	1.509	0.754	0.754	0.754	1.509
65	2.263	2.263	0.754	0.754	0.754	0.000	0.000	0.000	0.000
70	1.509	0.754	1.509	0.000	0.754	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-L15-835-DIM-UNV-O-W-OF-CS_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	727.64	N.A.	69.90
0-30	1007.18	N.A.	96.70
0-40	1033.94	N.A.	99.30
0-60	1040.33	N.A.	99.90
0-80	1041.21	N.A.	100.00
0-90	1041.21	N.A.	100.00
10-90	840.50	N.A.	80.70
20-40	306.29	N.A.	29.40
20-50	310.50	N.A.	29.80
40-70	7.15	N.A.	0.70
60-80	0.88	N.A.	0.10
70-80	0.12	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	1041.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	200.71
10-20	526.93
20-30	279.54
30-40	26.76
40-50	4.20
50-60	2.19
60-70	0.76
70-80	0.12
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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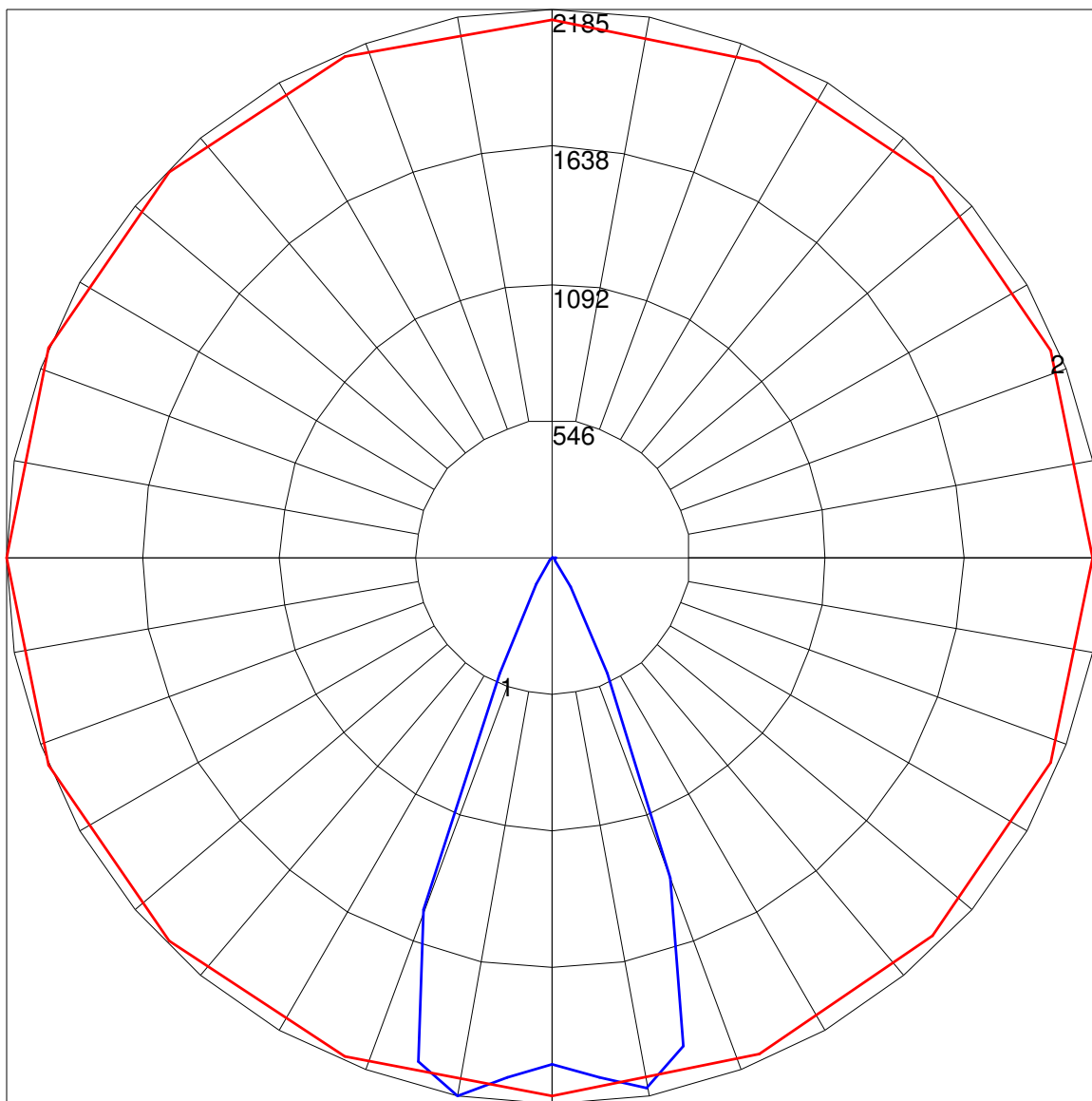
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	85	83	82	85	83	82	81	80	79	78	77	77	76	75	74	74	72
2	83	80	78	76	82	79	77	75	77	75	73	75	73	72	72	71	70	69
3	80	76	73	71	79	75	73	70	74	71	69	72	70	68	70	69	67	66
4	77	73	70	67	76	72	69	67	71	68	66	69	67	65	68	66	64	64
5	75	70	66	64	74	69	66	63	68	65	63	67	64	62	66	63	62	61
6	72	67	63	61	71	66	63	61	65	62	60	64	62	60	63	61	59	59
7	70	64	61	58	69	64	60	58	63	60	58	62	59	57	61	59	57	56
8	67	62	58	56	66	61	58	56	60	57	55	60	57	55	59	57	55	54
9	65	59	56	53	64	59	56	53	58	55	53	58	55	53	57	55	53	52
10	63	57	54	51	62	57	54	51	56	53	51	56	53	51	55	53	51	50

POLAR GRAPH



Maximum Candela = 2184.591 Located At Horizontal Angle = 180, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)