



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4AR-P10-835-POE-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-P10-835-POE-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	1123
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	12.3
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	870	870	870
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 4AR-P10-835-POE-ON-OF-CS_0 DEGREE TILT_.IES

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	6488.259	6488.259	6488.259	6488.259	6488.259	6488.259	6488.259	6488.259	6488.259
5	5886.336	5772.817	5786.107	5839.267	5792.199	5825.423	5649.332	5691.417	5690.309
10	3705.124	3692.942	3716.199	3913.333	3772.128	3721.183	3507.437	3654.733	3504.114
15	1568.213	1474.630	1671.764	1692.806	1748.735	1775.314	1690.037	1598.115	1520.591
20	566.484	519.415	583.096	599.155	671.142	640.686	619.643	620.751	594.171
25	179.968	179.968	190.489	213.193	214.300	217.623	203.779	208.209	213.747
30	54.267	52.606	50.945	54.267	55.928	55.928	54.821	55.928	50.945
35	15.505	16.612	16.612	16.612	18.274	17.720	17.166	17.166	14.397
40	7.199	6.645	7.199	7.752	7.752	7.752	6.645	6.645	5.537
45	4.984	4.984	4.984	4.984	4.984	3.876	2.215	3.876	3.876
50	0.000	0.000	0.000	0.000	0.554	0.554	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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-ON-OFF-CS_0 DEGREE TILT_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	988.09	N.A.	88.00
0-30	1105.31	N.A.	98.40
0-40	1119.77	N.A.	99.70
0-60	1122.8	N.A.	100.00
0-80	1122.8	N.A.	100.00
0-90	1122.8	N.A.	100.00
10-90	637.65	N.A.	56.80
20-40	131.68	N.A.	11.70
20-50	134.68	N.A.	12.00
40-70	3.03	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	1122.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	485.15
10-20	502.94
20-30	117.22
30-40	14.46
40-50	3.00
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

IES INDOOR REPORT

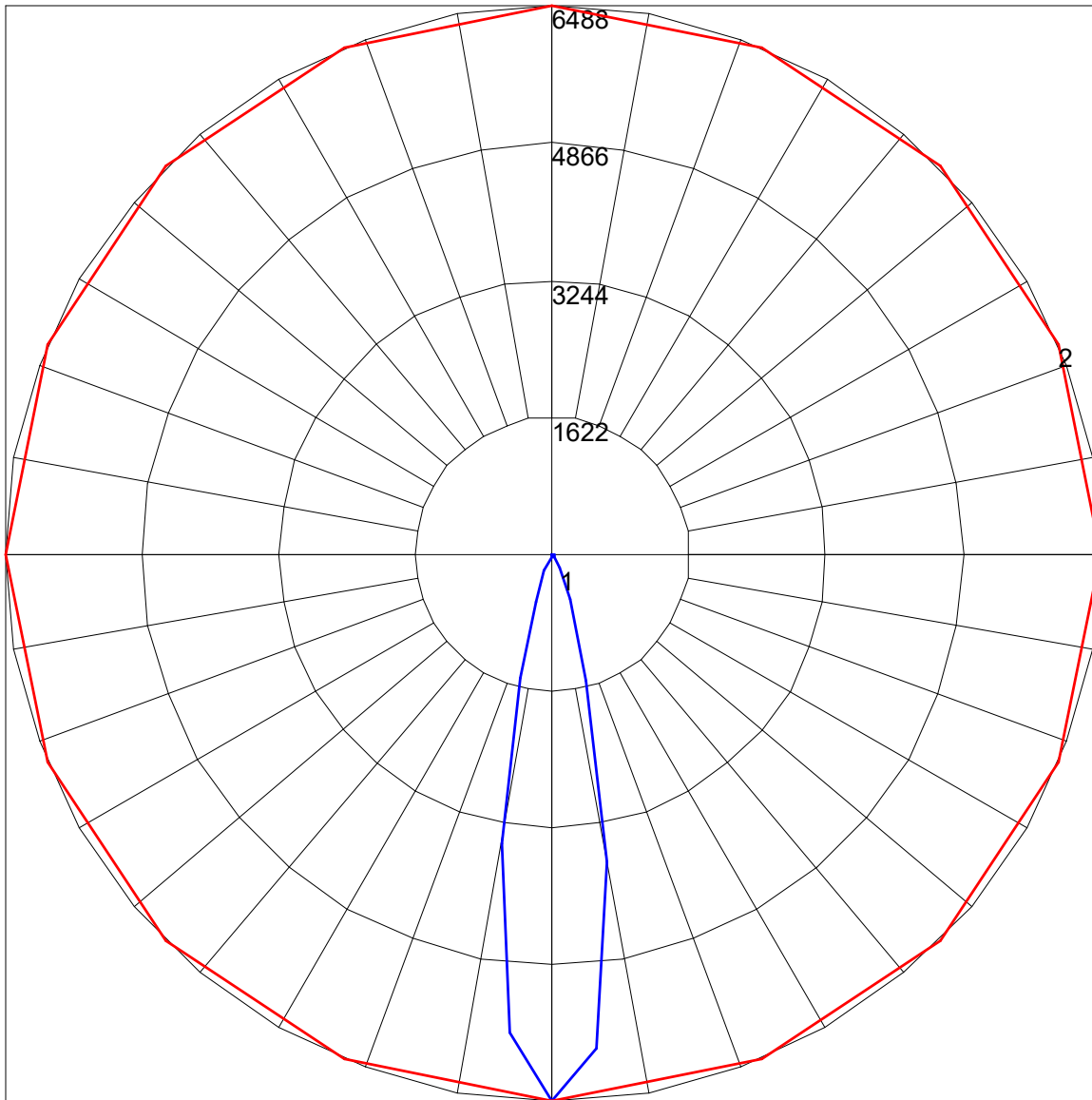
PHOTOMETRIC FILENAME : 4AR-P10-835-POE-ON-OF-CS_0 DEGREE TILT_.IES

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	132	132	132	132	129	129	129	129	123	123	123	118	118	118	113	113	113	111
1	128	126	124	122	125	123	121	120	119	118	116	115	114	113	111	110	110	108
2	124	120	117	115	122	119	116	113	115	113	111	112	110	109	109	108	107	105
3	121	116	112	109	119	114	111	108	112	109	107	109	107	105	107	105	104	102
4	117	112	108	105	116	111	107	104	109	106	103	107	104	102	105	103	101	100
5	114	108	104	101	113	108	104	101	106	103	100	104	101	99	103	100	98	97
6	112	105	101	98	110	105	101	98	103	100	97	102	99	97	101	98	96	95
7	109	102	98	95	108	102	98	95	101	97	95	100	97	94	99	96	94	93
8	106	100	96	93	105	99	96	93	98	95	92	97	94	92	97	94	92	91
9	104	97	93	91	103	97	93	91	96	93	90	95	92	90	95	92	90	89
10	102	95	91	89	101	95	91	89	94	91	88	93	90	88	93	90	88	87

POLAR GRAPH



Maximum Candela = 6488.259 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.)