



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-P13-8TW-POE-OW-OF-CS 4000K_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] 24-JUL-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTAHGE, 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-P13-8TW-PoE-OW-OF-CS 4000k_0 DEG TILT

[_SEARCH_SOURCETYPE] 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	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)	0.96
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	358	279	478
55	0	49	98
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	1420.634	1420.634	1420.634	1420.634	1420.634	1420.634	1420.634	1420.634	1420.634
5	1426.287	1421.662	1419.092	1414.980	1409.840	1405.214	1397.505	1391.851	1388.253
10	1447.874	1441.193	1430.399	1423.203	1422.175	1421.148	1410.868	1401.102	1389.795
15	1445.304	1432.455	1417.036	1395.449	1384.141	1374.376	1356.900	1320.408	1304.989
20	1330.174	1346.107	1301.905	1293.167	1275.692	1243.825	1214.015	1198.081	1167.757
25	984.267	954.456	982.211	955.484	935.953	874.790	867.080	855.258	836.755
30	569.487	576.169	542.760	506.268	501.128	489.820	467.205	448.702	428.657
35	134.148	123.355	103.823	117.701	103.823	100.740	100.740	90.974	105.879
40	28.783	25.699	23.129	24.157	26.727	25.185	24.671	24.671	21.073
45	4.626	3.598	3.598	5.140	6.168	6.682	5.654	6.682	5.654
50	1.542	1.028	0.514	1.028	1.542	2.056	1.542	2.056	2.056
55	0.000	0.000	0.514	0.514	1.028	0.514	0.000	1.028	0.514
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 : 6AR-P13-8TW-POE-OW-OF-CS 4000K_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	519.49	N.A.	49.60
0-30	928.17	N.A.	88.60
0-40	1040.34	N.A.	99.30
0-60	1047.83	N.A.	100.00
0-80	1047.83	N.A.	100.00
0-90	1047.83	N.A.	100.00
10-90	912.79	N.A.	87.10
20-40	520.85	N.A.	49.70
20-50	527.82	N.A.	50.40
40-70	7.50	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	1047.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.04
10-20	384.45
20-30	408.68
30-40	112.17
40-50	6.97
50-60	0.53
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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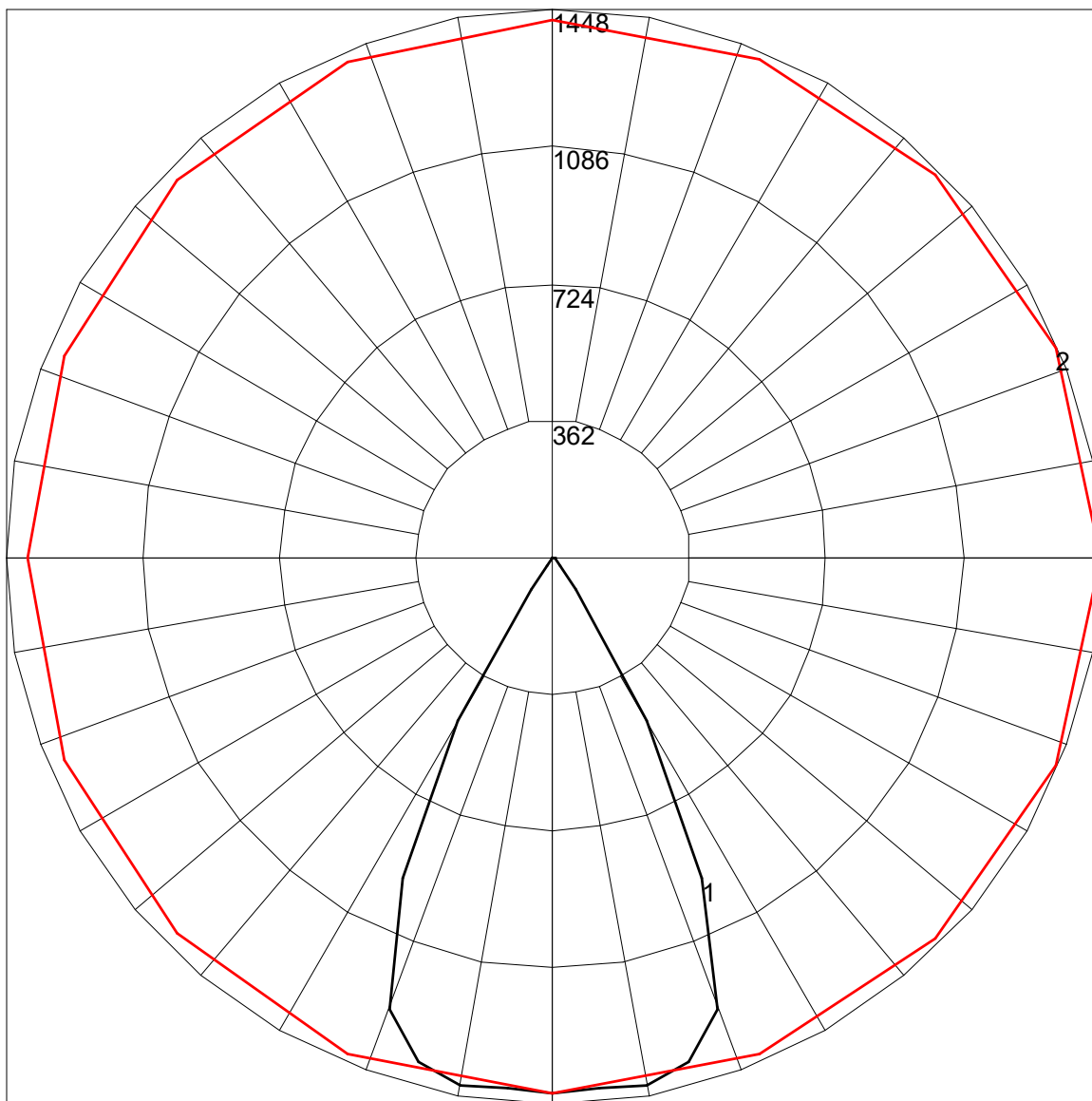
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	96	96	96	93	93	93	93	89	89	89	85	85	85	82	82	82	80
1	92	90	88	86	90	88	86	85	85	83	82	82	81	80	79	78	77	76
2	88	84	81	79	86	83	80	78	80	78	76	78	76	75	76	74	73	72
3	84	79	76	73	82	78	75	72	76	74	71	74	72	70	73	71	69	68
4	80	75	71	68	79	74	71	68	72	69	67	71	68	66	69	67	65	64
5	77	71	67	64	76	70	66	64	69	66	63	68	65	62	66	64	62	61
6	74	67	63	60	73	67	63	60	66	62	59	65	61	59	63	61	59	58
7	71	64	60	57	70	63	59	57	62	59	56	62	58	56	61	58	56	55
8	68	61	57	54	67	60	56	54	60	56	53	59	55	53	58	55	53	52
9	65	58	54	51	64	58	54	51	57	53	51	56	53	50	56	52	50	49
10	62	55	51	48	61	55	51	48	54	51	48	54	50	48	53	50	48	47

POLAR GRAPH



Maximum Candela = 1447.874 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.)